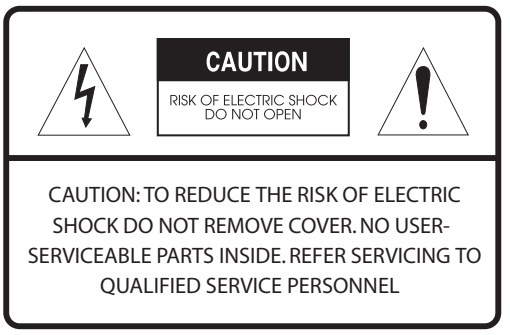
VR3845

User's Guide

DVD Recorder + VCR

GO.VIDEO®


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute risk of fire or electric shock.

This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying this product.

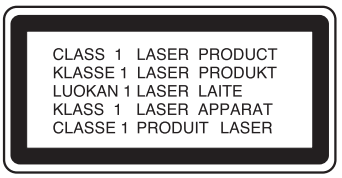
WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING:

Do not install this equipment in a confined space such as a bookcase or similar unit.

CAUTION:



This product employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service center.
Performing controls, adjustments, or carrying out procedures other than those specified herein may result in hazardous radiation exposure.
To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION:

The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION:

CLASS 2M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Power Cord Caution

Most appliances recommend they be placed upon a dedicated circuit; That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.
Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.
Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

Important Safety Instructions

1. Read these instructions - All these safety and operating instructions should be read before the product is operated.
2. Keep these instructions - The safety, operating and use instructions should be retained for future reference.
3. Heed all warnings - All warnings on the product and in the operating instructions should be adhered to.
4. Follow all instructions - All operating and use instructions should be followed.
5. Do not use this product near water – For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water.
6. Clean only with dry cloth – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over.

PORTABLE CART WARNING
(Symbol provided by RETAC)

13. Unplug this product during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

Congratulations!

Congratulations on your purchase of this VR3845 DVD Recorder+VCR. We know you will enjoy this product for many years to come. In case service is required, please take a moment to write down your serial number located on the rear panel of the DVD Recorder+VCR:

_____

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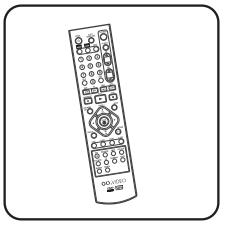
1 Welcome

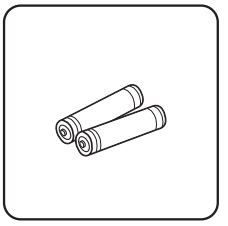
This Chapter provides a basic introduction to the DVD Recorder+VCR, including an overview of the front panel, rear panel, and remote control.

Unpacking

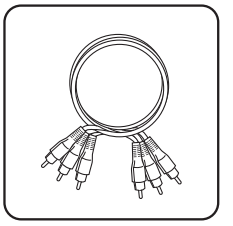
Check to make sure the following items are included with your DVD Recorder+VCR:



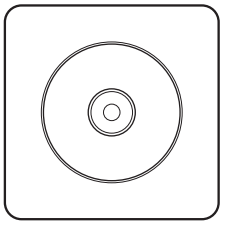
Remote Control



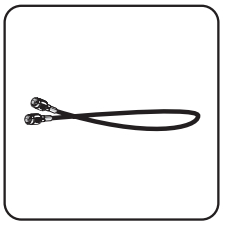
AAA Batteries



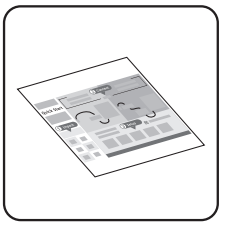
Audio/Video Cables



Blank Disc



RF Cable



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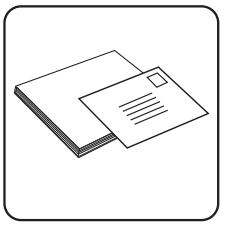


User's Guide & Registration Card

Compatible Media

The following media can be used in your DVD Recorder+VCR:

Playback and recording

- DVD-RW (VR and Video mode)
- DVD-R
- DVD+RW
- DVD+R
- VHS tapes

Playback only

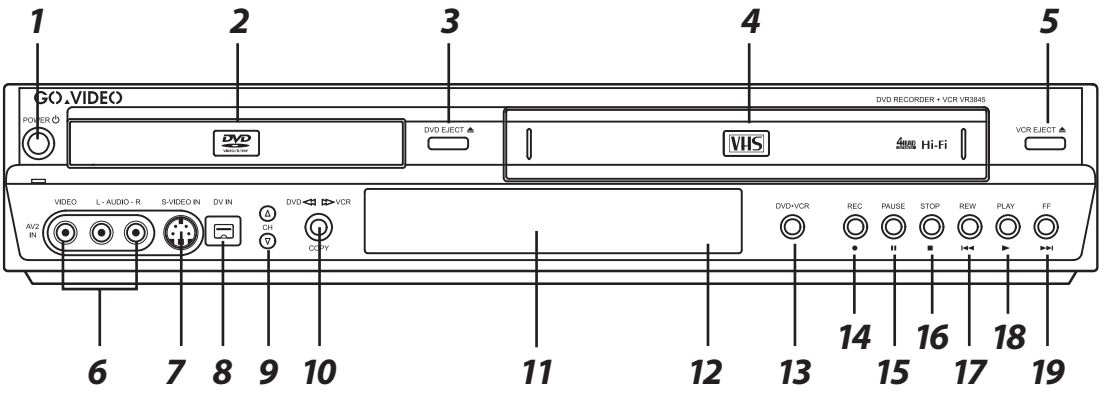
- DVD Video
- Video CD
- Audio CD
- CD-R/RW and DVD+-R/RW with audio titles, MP3, WMA, or JPEG files

NOTE:

- *This unit is designed for playback of Region 1 encoded DVDs.*

Front Panel

Front panel overview:



1 POWER button
2 DVD deck
3 DVD EJECT button
4 VCR deck
5 VCR EJECT button
6 AUDIO/VIDEO 2 IN jacks
7 S-VIDEO IN jack
8 DV IN jack
9 CHANNEL ▲/▼ buttons
10 COPY button
11 Front Panel Display (see page 9)
12 Remote Sensor
13 DVD/VCR SELECT button
14 RECORD ● button
15 PAUSE ⏸ button
16 STOP ■ button
17 REWIND ⏮ button
18 PLAY ▶ button
19 FF ⏭ button

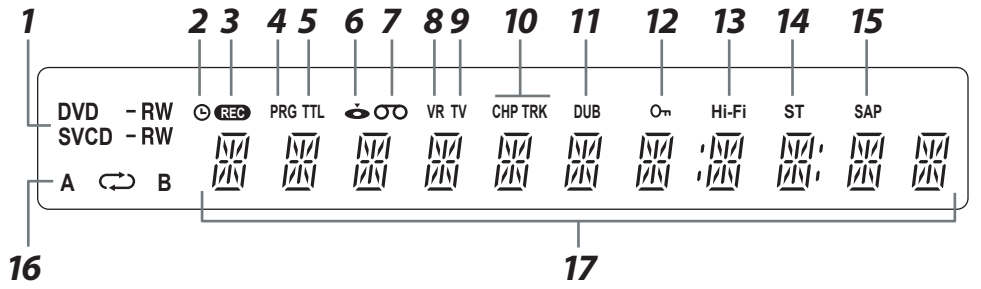
NOTE:

- *You can lock the front panel buttons to prevent unwanted operation. Simply press LOCK on the remote control to toggle this feature on and off.*

LOCK

Front Panel Display

Front panel display overview:

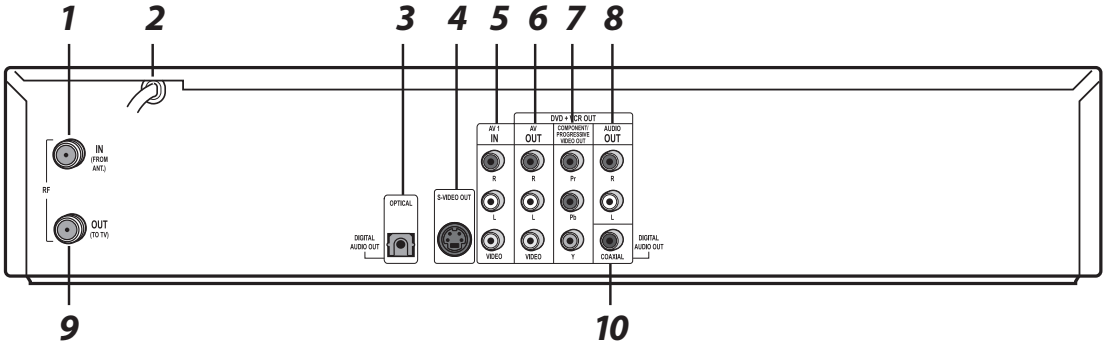


When lit, indicates:

1 Current disc type
2 Timer recording in progress
3 Recording in progress
4 Program playback enabled
5 Current title number
6 Disc loaded
7 Tape loaded
8 DVD-RW (VR mode) disc loaded
9 TV mode active
10 Current chapter/track number
11 Copy in progress
12 Front panel keys locked
13 Tape with Hi-Fi audio playing
14 TV show broadcast in Stereo
15 TV show broadcast in SAP (Secondary Audio Program) mode
16 Current Repeat mode
17 Current DVD Recorder+VCR status

Rear Panel

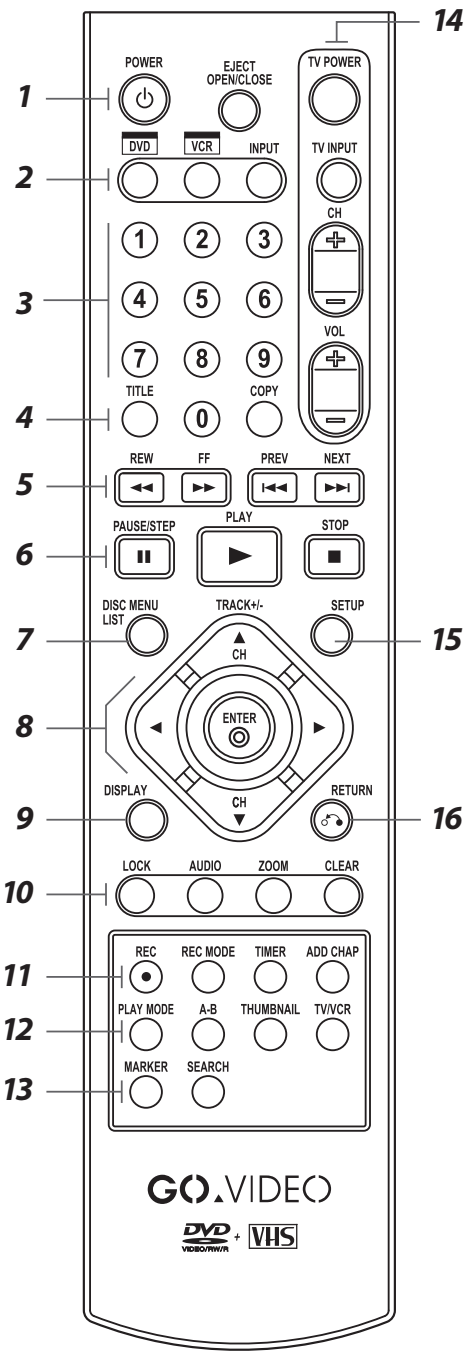
Rear panel overview:



1 ANTENNA IN jack
2 AC Power cord
3 OPTICAL DIGITAL AUDIO OUT jack
4 S-VIDEO OUT jack
5 AUDIO/VIDEO 1 IN jacks
6 AUDIO/VIDEO OUT jacks
7 COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks
8 AUDIO OUT jacks
9 ANTENNA OUT jack
10 COAXIAL DIGITAL AUDIO OUT jack

Remote Control

Remote control overview:



1 POWER button
EJECT button
2 DVD button
VCR button
INPUT button
3 0-9 buttons
4 TITLE button
COPY button
5 REW ◀◀ /FF ▶▶ buttons
PREV ⏮ /NEXT ⏭ buttons
6 PAUSE/STEP ⏸ button
PLAY ▶ button
STOP ■ button
7 DISC MENU/LIST button
8 ARROW ◀ ▶ ▲ ▼ buttons
CH ▲ ▼ buttons
TRACK+/- buttons
9 DISPLAY button
10 LOCK button
AUDIO button
ZOOM button
CLEAR button
11 RECORD ● button
RECORD MODE button
TIMER button
ADD CHAPTER button
12 PLAY MODE button
A-B button
THUMBNAIL button
TV/VCR button
13 MARKER button
SEARCH button
14 TV POWER button
TV INPUT button
TV CH+/- buttons
TV VOLUME+/- buttons
15 SETUP button
16 RETURN button

2 Connections

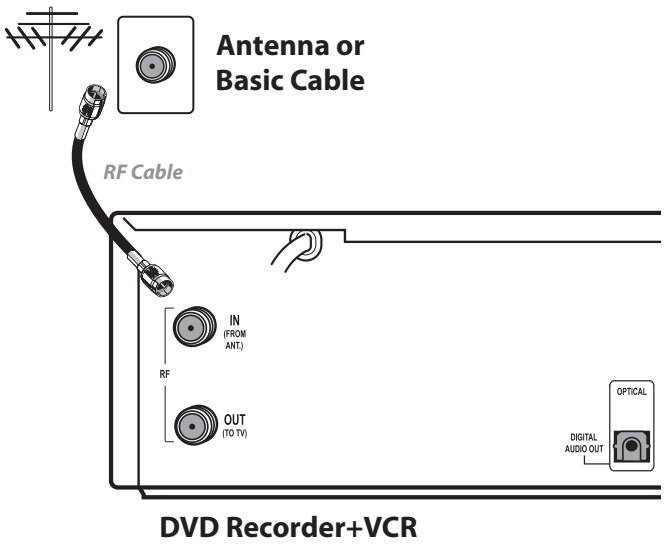
This Chapter shows you how to connect the DVD Recorder+VCR to your TV and other home theater components.

- For basic connections, see pages 13-15.
- For advanced connections, see pages 16-19.

Antenna/Basic Cable Connections

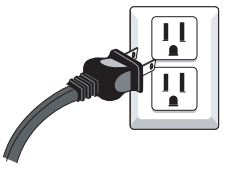
If you are using an antenna or basic cable TV service:

1. Connect the RF coaxial cable from your antenna or cable wall jack to the rear panel of the DVD Recorder+VCR as shown.
2. Connect the DVD Recorder+VCR to your TV; see page 15.



NOTE:

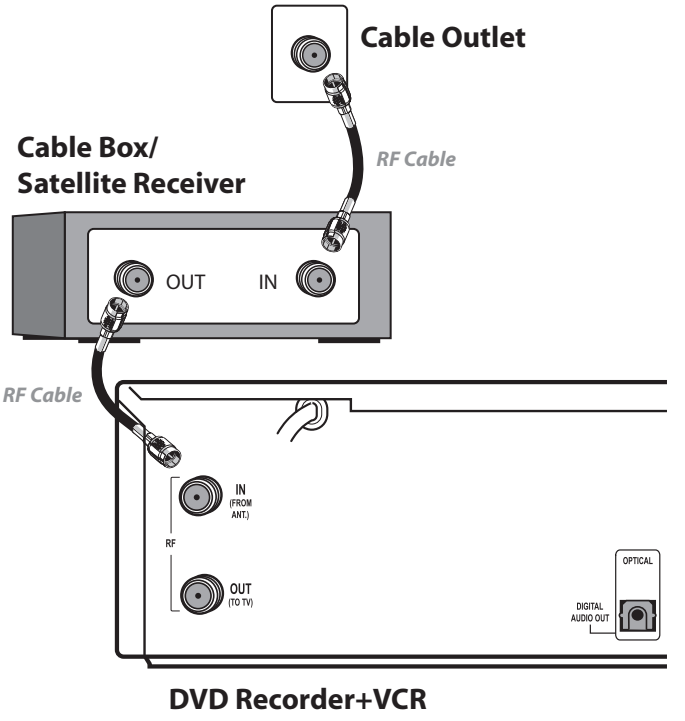
- *Do not connect the AC power cord until all other connections have been made.*
- *The DVD Recorder+VCR receives broadcast channels 2-69 and cable TV channels 1-125.*



Cable Box/Satellite Receiver Connections

If you are using a cable box or satellite receiver:

1. Connect an RF cable from the wall jack to the cable box/receiver.
2. Connect an RF cable from the cable box/receiver to the DVD Recorder+VCR.
3. Connect the DVD Recorder+VCR to your TV; see page 15.



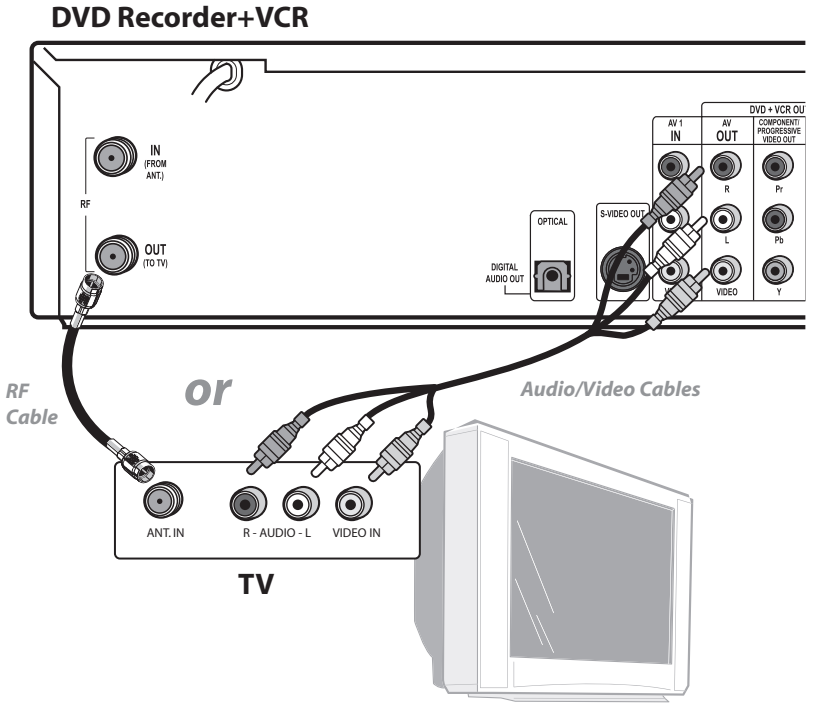
NOTE:

- *With this connection, set the DVD Recorder+VCR to channel 3 or 4 and then select channels on the cable box/receiver.*
- *If your cable box/receiver is equipped with AV Out jacks, use the Rear or Front AV Connections for better picture and sound quality; see pages 18-19.*

Basic TV Connections

If your TV has standard RF or AV inputs:

1. Connect the supplied RF cable from the DVD Recorder+VCR to your TV as shown.
   OR
   Connect the supplied audio/video cables from the DVD Recorder+VCR to your TV as shown.
2. Press POWER to turn on the DVD Recorder+VCR.
3. Turn on your TV and set it to channel 3 or 4 (for the RF connection) or the appropriate Video input (for the AV connection).
4. Continue with Chapter 3 to set up your DVD Recorder+VCR.



NOTE:

- *If your TV has S-Video or Component Video inputs, see page 16.*
- *To change the RF Out channel to 3 or 4, first turn off the unit. Then press and hold both of the CH ▲ ▼ buttons on the front panel for 5 seconds. The selected output channel appears on the front panel display. Tune your TV to this channel.*

Enhanced Video Options

If your TV has S-Video or Component/Progressive Scan Video inputs, you can enjoy superior picture quality (DVD playback only):

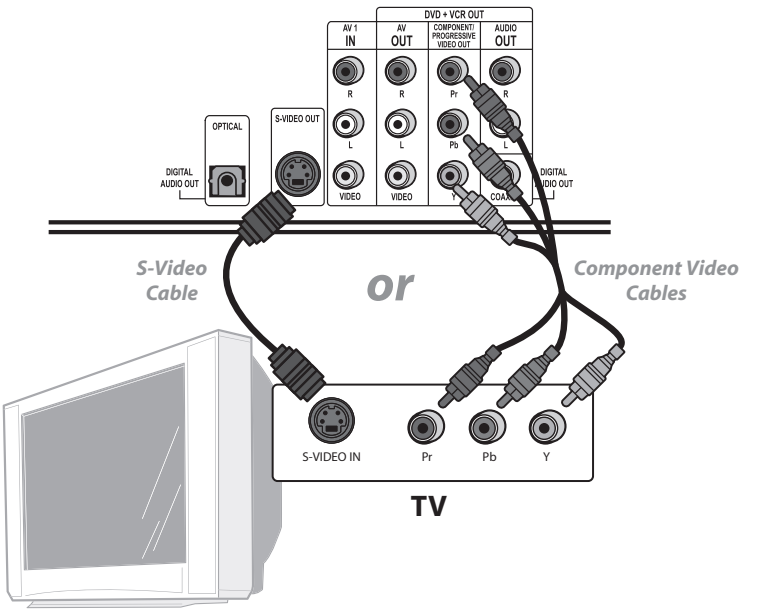
1. Connect an S-Video cable OR set of Component Video cables from the DVD Recorder+VCR to your TV as shown.
2. Select the S-Video or Component Video input on your TV to view the DVD Recorder+VCR.
   - If you have a Progressive Scan TV, you must activate "Progressive Scan" in the Setup menu; see page 24.

Composite Video (good)

S-Video (better)

Component/Progressive Scan Video (best)

DVD Recorder+VCR



NOTE:

- *Be sure to choose one of the audio connection options on page 17.*
- *If your TV is capable of receiving a Progressive Scan signal, see page 24.*

Enhanced Audio Options

If you have a stereo system or amplifier/receiver, you can enjoy superior sound quality:

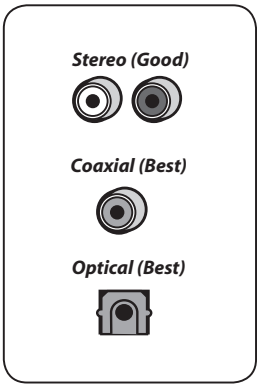
1 Connect left/right audio cables from the DVD Recorder+VCR to your stereo system or analog receiver as shown.

OR

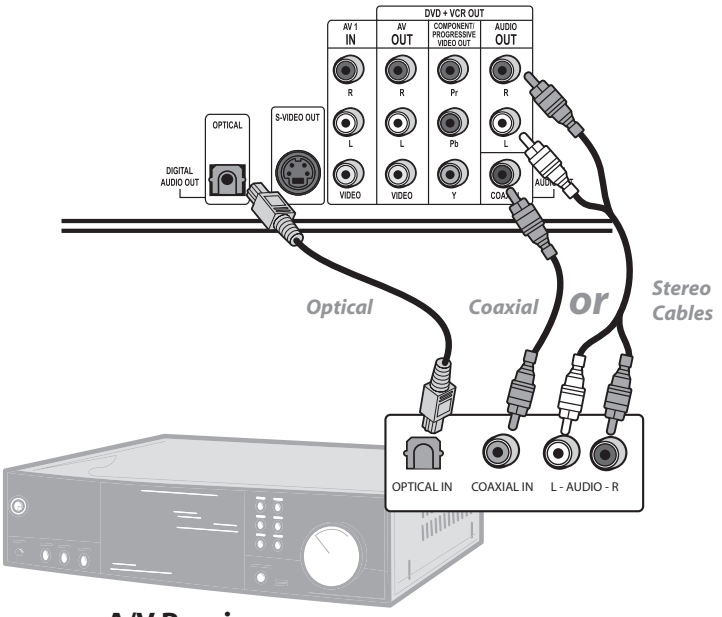
Connect a digital coaxial or optical cable from the DVD Recorder+VCR to your digital audio receiver as shown.

2 Select the appropriate audio input on your stereo or receiver to hear the DVD Recorder+VCR.

- If you used the coaxial or optical connection, you must set the appropriate Audio Settings for your equipment; see page 26.



DVD Recorder+VCR



A/V Receiver

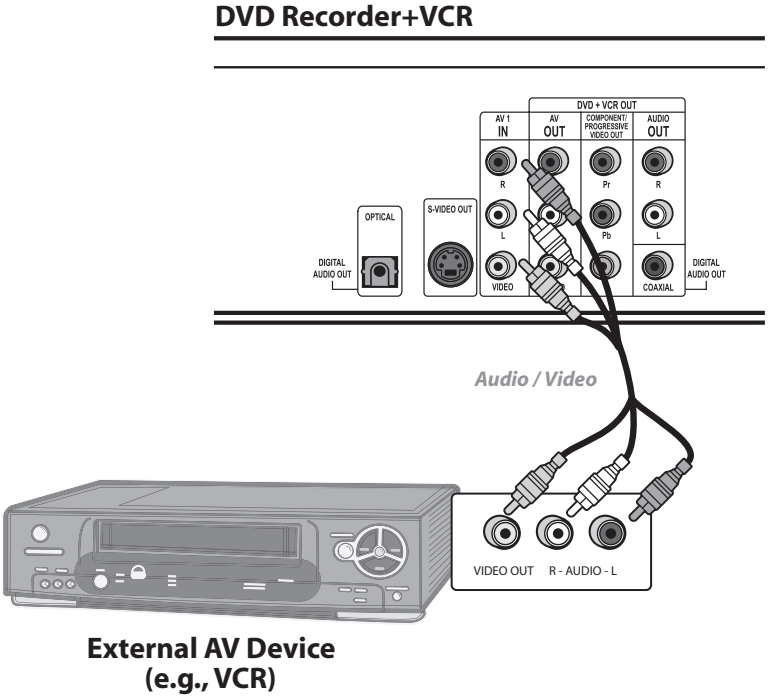
NOTE:

- *If your receiver is equipped with a Dolby Digital and/or DTS decoder your can enjoy 5.1 surround sound playback while watching DVD movies; see page 26.*

Rear AV Connections

To view and record from an external device, such as a VCR, connected to the rear AV 1 inputs:

1. Connect standard audio/video cables from the outputs of the external device to the inputs of the DVD Recorder+VCR as shown.
2. Press INPUT until AV1 appears on the screen.



NOTE:

- *To record from the external device, see page 41.*

Front AV Connections

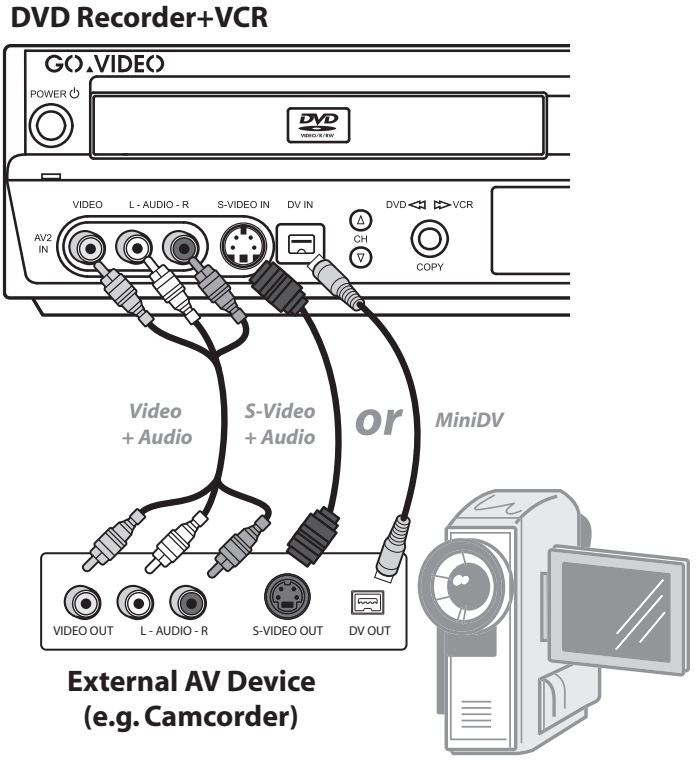
To view and record from an external device, such as a camcorder or video game, connected to the front panel AV 2 or DV inputs:

1 Connect audio+video cables or S-Video+audio cables from the outputs of the external device to the inputs of the DVD Recorder+VCR as shown.

OR

Connect a DV cable from the external device to the front panel of the DVD Recorder as shown.

2 Press INPUT until AV2 or DV appears on the screen.



NOTE:

- *To record from the external device, see page 41.*
- *If you use the S-Video In jack on the front panel, the Video In jack is not available.*

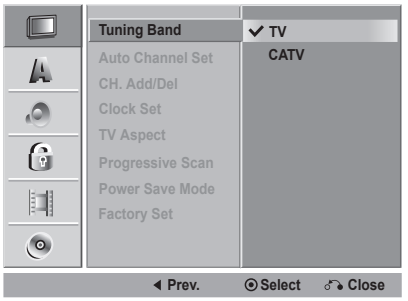
3 Setup

This Chapter allows you to customize the DVD Recorder+VCR to meet your system requirements and personal preferences.

Setup Menu Overview

The Setup menu allows you to customize your DVD Recorder+VCR. Choose from these categories:

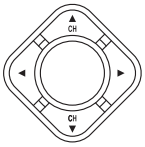
- General Settings – see page 22
- Language Settings – see page 25
- Audio Settings – see page 26
- Parental Lock Settings – see page 27
- Record Settings – see page 28
- Disc Settings – see page 29



Menu Navigation Keys

POWER
Press POWER to turn on the DVD Recorder+VCR.

SETUP
Press SETUP to display and exit the Setup menu.



ARROW KEYS
Use the ▲ ▼ keys to select the desired option.
Use the ◀ ▶ keys to move to the next or previous level.

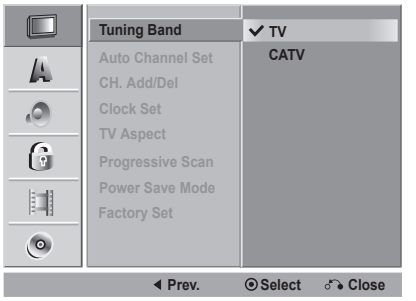
ENTER
Press ENTER to confirm your selections.

RETURN
Press RETURN to exit the Setup menu.

General Settings

Tuning Band

Specifies whether the DVD Recorder+VCR is connected to an antenna or cable TV source.



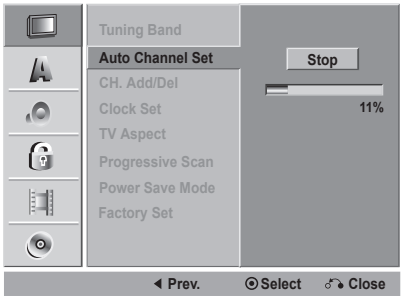
1. Press SETUP.
2. Select "GENERAL" > "Tuning Band".
3. Choose from the following:

   TV - Select if the DVD Recorder+VCR is connected to an antenna.

   CATV - Select if the DVD Recorder+VCR is connected to a cable TV source.

Auto Channel Search

Automatically searches for all available TV stations from antenna or cable TV.



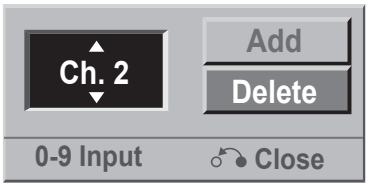
1. Press SETUP.
2. Select "GENERAL" > "Auto Channel Set" > "Start".
   - The DVD Recorder+VCR searches for all available stations. This may take several minutes to complete.

NOTE:

- *If you receive channels from a cable box or satellite receiver, there is no need to set the Tuning Band or search for channels.*

Adding/Deleting Channels

Allows you to manually add or delete channels.



1. Press SETUP.
2. Select "GENERAL" > "CH. Add/Del" >"Edit".
3. Add or delete channels:
   - Use CH ▲ ▼ or 0-9 to select the desired channel, then press ▶.
   - Press ENTER to add or delete the selected channel.

General Settings *(continued)*

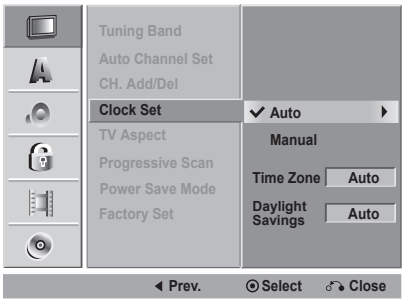
Auto Clock Set

Sets the clock automatically whenever the DVD Recorder+VCR is turned off.

1. Press SETUP.
2. Select "GENERAL" > "Clock Set" > "Auto".
3. Choose from the following:

   Time Zone - Set your local time zone to Auto (default), Hawaii, Alaska, Pacific, Mountain Central, or Eastern.

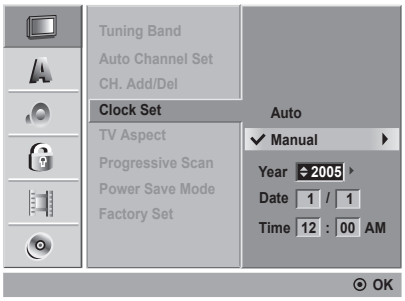
   Daylight Savings - Set Daylight Saving to Auto (default), OFF, or ON.



Manual Clock Set

Sets the date and time manually. This is only necessary if Auto Clock sets the time incorrectly or is not available.

1. Press SETUP.
2. Select "GENERAL" > "Clock Set" > "Manual".
3. Set the date and time.
   - Use ◄ ► to move the cursor.
   - Use ▲ ▼ to change each setting.
   - When finished, press ENTER.



TV Aspect Ratio

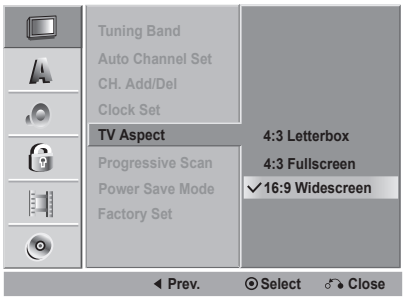
Sets your preferred aspect ratio for DVD movies.

1. Press SETUP.
2. Select "GENERAL" > "TV Aspect".
3. Choose from the following:

   4:3 Letterbox - Select if you have a standard TV and prefer widescreen movies displayed with black bars above and below the picture.

   4:3 Fullscreen - Select if you have a standard TV and prefer widescreen movies cropped to fit the screen.

   16:9 Widescreen - Select if you have a widescreen TV.

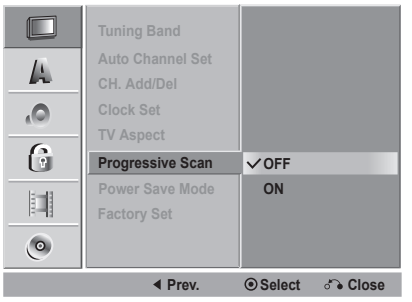


General Settings *(continued)*

Progressive Scan

Activates the Progressive Scan output to your TV.

1. Press SETUP.
2. Select "GENERAL" > "Progressive Scan".
3. Turn Progressive Scan on or off.
   - Only activate Progressive Scan if your TV is capable of receiving a Progressive Scan signal.



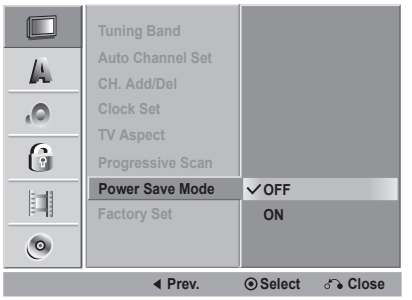
NOTE:

- *If your enable Progressive Scan accidentally, the picture will be distorted. To reset the unit, first remove any disc or tape in the unit, then press and hold the STOP ■ button for 5 seconds.*

Power Save Mode

Sets the DVD Recorder+VCR to an economical power saving mode.

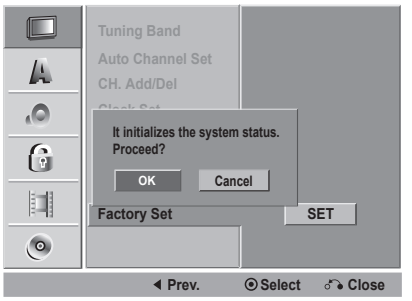
1. Press SETUP.
2. Select "GENERAL" > "Power Save Mode".
3. Turn Power Save Mode on or off.



Factory Settings

Restores the DVD Recorder+VCR to its original factory settings.

1. Press SETUP.
2. Select "GENERAL" > "Factory Set" > "SET".
3. Select "OK" and press ENTER.
   - All menu settings will be restored to their factory defaults.
   - Some settings cannot be reset, including the Parental Control, Password, and Area Code settings.

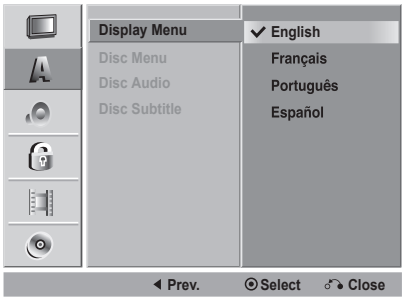


Language Settings

On-Screen Display Language

Sets the default language for the Setup menu and On-Screen Displays.

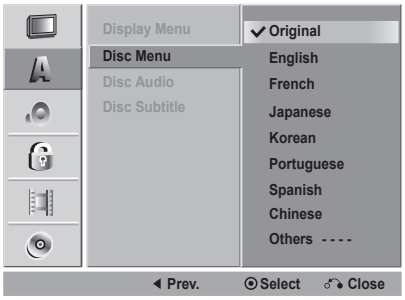
1. Press SETUP.
2. Select "LANGUAGE" > "Display Menu".
3. Select your preferred OSD language (English, Français, Português, or Español).



Disc Menu/Audio/Subtitle Languages

Sets your preferred language for DVD disc menus, audio soundtracks, and subtitles.

1. Press SETUP.
2. Select "LANGUAGE" > "Disc Menu", "Disc Audio", or "Disc Subtitle".
3. Select your preferred languages.
   - For the disc's default language, choose "Original".
   - To select "Other" languages, enter the 4-digit code corresponding to your desired language using the table on page 55.
   - To disable subtitles, choose "OFF".



Audio Settings

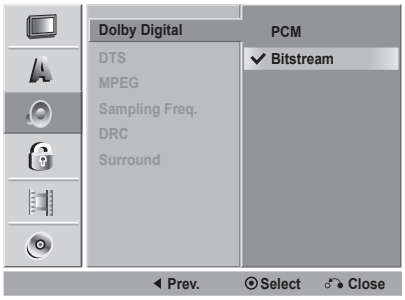
Dolby/DTS/MPEG

Sets the format of the digital audio signal from the Coaxial and Optical jacks.

1. Press SETUP.
2. Select "AUDIO" > "Dolby Digital", "DTS", or "MPEG".
3. Choose from the following options:

   PCM – Select if the unit is connected to a 2-channel digital stereo amplifier.

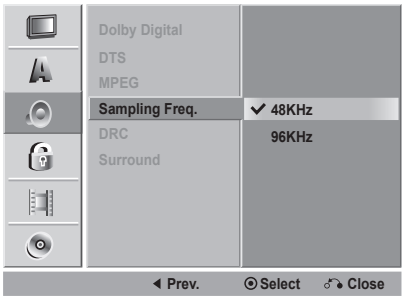
   Bitstream - Select if the unit is connected to a 5.1 channel amplifier/receiver with a built-in Dolby Digital, DTS, or MPEG decoder.



Sampling Frequency

Sets the digital output frequency to match the capabilities of your amplifier.

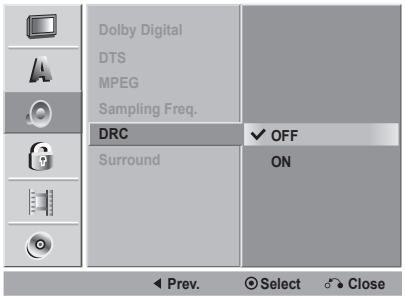
1. Press SETUP.
2. Select "AUDIO" > "Sampling Freq".
3. Choose "48KHz" or "96KHz".
   - Only select 96kHz if your amplifier is capable of handling 96 kHz signals



Dynamic Range Control

Compresses the dynamic range (DRC) of the audio output—the difference between the loudest and quietest passages—during DVD playback.

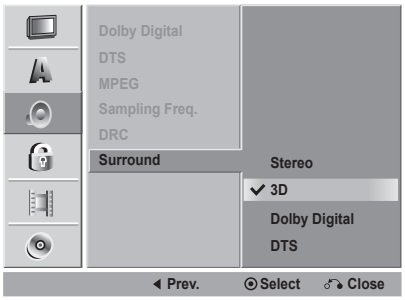
1. Press SETUP.
2. Select "AUDIO" > "DRC".
3. Turn DRC on or off.



Surround Mode

Sets the surround mode.

1. Press SETUP.
2. Select "AUDIO" > "Surround".
3. Choose "Stereo", "3D (Virtual Surround)", "Dolby Digital", or "DTS" to match the capabilities of your audio system.

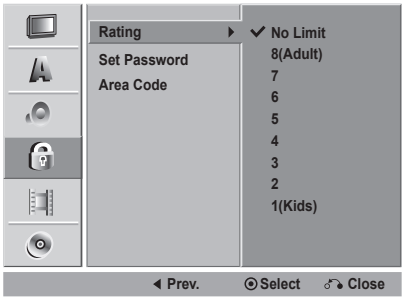


Parental Control Settings

Parental Control Rating

Blocks playback of rated DVDs based on their content. Not all discs are rated.

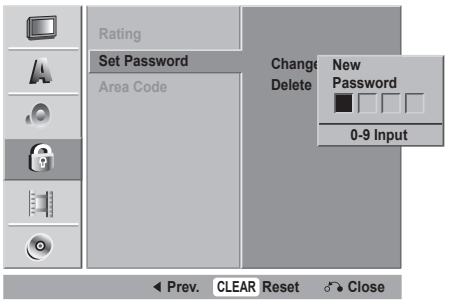
1. Press SETUP.
2. Select "LOCK" > "Rating".
3. Enter your password using the 0-9 keys.
   - If this is your first visit, you will be prompted to enter and verify your "New Password".
4. Select the desired Rating from "1 (Kids)" to "8(Adult)", then press ENTER.
   - Choose "No Limit" to disable the Parental Control feature.
   - Playback of discs that exceed the set rating will be blocked unless you enter the correct password.



Changing the Password

Changes the Parental Control password.

1. Press SETUP.
2. Select "LOCK" > "Set Password" > "Change".
3. Enter your old password using the 0-9 keys.
4. Enter your new password.
5. Re-enter your new password.



Country Code

Selects the country whose standards were used to rate the disc.

1. Press SETUP.
2. Select "LOCK" > "Area Code".
3. Enter your password using the 0-9 keys.
4. Enter the desired Country Code from the list on page 56.

NOTE:

- *If you forget your password, press SETUP to display the Setup menu, then press 2-1-0-4-9-9. Select "OK" and press ENTER.*

Record Settings

Disc Record Mode

Sets the default quality for DVD recording.

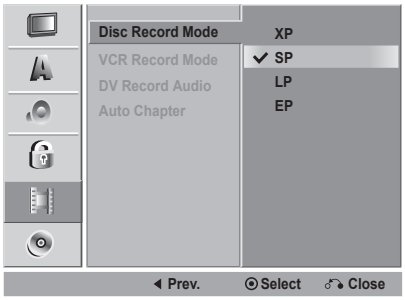
1 Press SETUP.
2 Select "RECORD" > "Disc Record Mode".
3 Choose from the following:

XP (best) – 1 hour/disc

SP (better) – 2 hours/disc

LP (good) – 4 hours/disc

EP (fair) – 6 hours/disc



VCR Record Mode

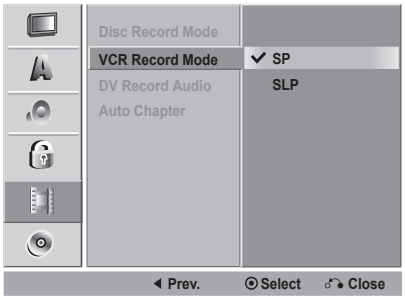
Sets the default quality for VCR recording.

1 Press SETUP.
2 Select "RECORD" > "VCR Record Mode".
3 Choose from the following:

SP (good) – 2 hours/tape

SLP (fair) – 6 hours/tape*

* when using a T-120 tape



DV Record Audio

Sets the audio track to record when dubbing from a DV camcorder connected to the front DV input.

1 Press SETUP.
2 Select "RECORD" > "DV Record Audio".
3 Choose from the following:

Audio 1 – Records original audio.

Audio 2 – Records overdubbed audio.

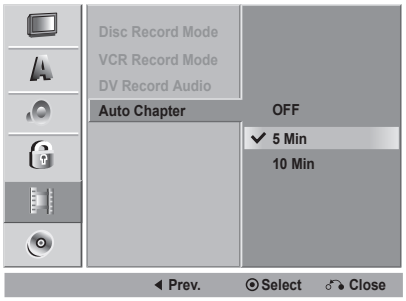
Auto Chapter Marking

Enables automatic chapter marking at regular intervals during DVD recording.

1 Press SETUP.
2 Select "RECORD" > "Auto Chapter".
3 Choose from the following:

OFF – Disables auto chapter marking.

5 Min, 10 Min – Creates chapters every 5 or 10 minutes during recording.



Disc Settings

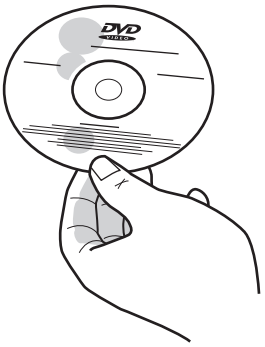
Initializing Discs

Whenever you load a blank recordable disc, the DVD Recorder+VCR will initialize the disc (prepare it for recording):

DVD-R - DVD-R discs are always initialized in Video mode. They can be recorded only once.

DVD-RW - DVD-RW discs can be initialized in VR Mode or Video Mode. When the "Initialize" menu appears, select "VR Mode" for maximum editing features, or "Video mode" for maximum compatibility with other DVD players. DVD-RW discs can be erased and recorded repeatedly.

DVD+R,DVD+RW - When you load a DVD+R and DVD+RW disc, you will be prompted, "Do you want to initialize the disc?" Select "OK" then press ENTER. DVD+R discs can be recorded once. DVD+RW discs can be erased and recorded repeatedly.



NOTE:

- *Initialization options vary by disc type. These options are presented automatically whenever you insert a blank recordable disc.*

Erasing/Reformatting Discs

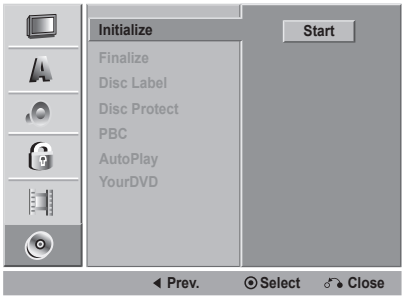
To initialize (erase and reformat) a DVD-RW or DVD+RW disc:

1. Press SETUP.
2. Select "DISC" > "Initialize" > "Start".
3. Choose from the following:

DVD-RW - Select "VR Mode" or "Video Mode" and press ENTER.

DVD+RW - Select "OK" and press ENTER.

- All contents will be erased and the disc will be formatted.

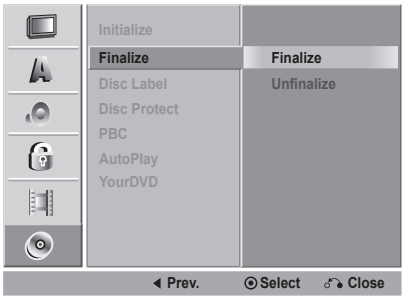


Disc Settings *(continued)*

Finalizing Discs

Finalizing a disc enables it to be played on other DVD players or computers equipped with DVD-ROM drives. DVD+RW discs are finalized automatically. To finalize a DVD+R, DVD-R, or DVD-RW disc:

1. Press SETUP.
2. Select "DISC" > "Finalize".
3. Select "OK" and press ENTER.
   - Finalization may take up to 3-4 minutes. Not all finalized discs are compatible with all DVD players.



NOTE:

- *Once you have finalized a DVD-R or DVD+R disc, you cannot edit or record anything else on that disc.*
- *If you finalize a DVD-RW disc, you can record on it again by choosing "Unfinalize".*

Labeling Discs

To label your disc (up to 32 characters):

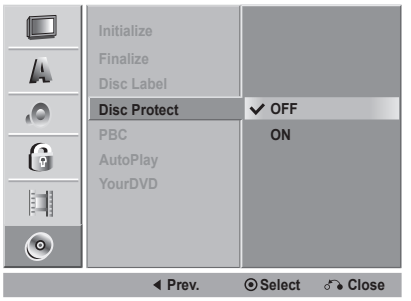
1. Press SETUP.
2. Select "DISC" > "Disc Label" > "Edit".
3. Select the desired characters from the keypad, pressing ENTER after each entry.
4. When finished, select "OK" and press ENTER.
   - The disc label appears on screen when you press DISC MENU/LIST or DISPLAY.

Protecting Discs

Depending on the type of disc you are using, you can protect your recordings in a variety of ways:

1. Press SETUP.
2. Select "DISC" > "Disc Protect".
3. Select "ON" to protect the disc.
   - To unlock a disc to make edits, select "OFF".

DVD+R - Prevents editing or erasing of existing recordings. Allows regular recording.



Disc Settings *(continued)*

DVD+RW - Prevents editing, erasing, or overwriting of existing recordings. Allows regular recording.

DVD-RW (VR mode) - Prevents editing, erasing, and regular recording.

DVD-R/DVD-RW (Video mode) - Not compatible with Disc Protect feature.

Playback Control (PBC)

PBC stands for Playback Control and refers to special menus and navigation features available on some Video CDs.

1. Press SETUP.
2. Select "DISC" > "PBC".
3. Turn PBC on or off:

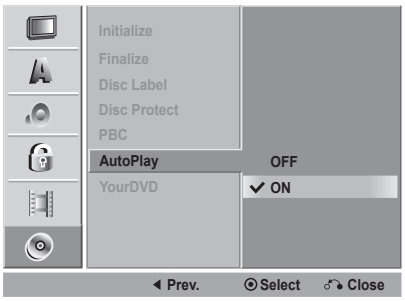
ON - Video CDs are played according to the PBC, if available.

OFF - Video CDs are played the same way as Audio CDs.

AutoPlay

AutoPlay skips the ads and trailers and starts DVD playback automatically when you load a disc.

1. Press SETUP.
2. Select "DISC" > "AutoPlay".
3. Turn AutoPlay on or off.



YourDVD

YourDVD automatically searches for your playback preferences (including Audio, Subtitle, and Surround mode) every time you load a DVD disc.

1. Press SETUP.
2. Select "DISC" > "YourDVD".
3. Turn YourDVD on or off.

4 Operations

This Chapter shows you how to use the most common features of the DVD Recorder+VCR, including playback, recording, copying, and editing.

- For playback features, see pages 34-38.
- For recording features, see pages 39-43.
- For copying features, see page 44.
- For editing features, see pages 45-52.

Basic Deck Controls

Use these keys for basic control the DVD Recorder+VCR:

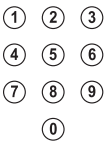
POWER
Press the POWER button to turn the DVD Recorder+VCR on and off.

DVD
Press the DVD button when you want to control the DVD deck.

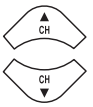
VCR
Press the VCR button when you want to control the VCR deck.

INPUT
Press the INPUT button to select the desired input: Tuner (Built-in Tuner), AV1 (Rear A/V input), AV2 (Front A/V or S-Video input), or DV (Front DV input).

TV/VCR
When using the RF OUT connection to your TV, press the TV/VCR button to switch between the DVD Recorder+VCR and your TV.



0-9
Use the 0-9 keys to select TV channels directly. Antenna channels are numbered 2-69. Cable channels are numbered 1-125.



CH ▲ / ▼
Use the CH ▲ / ▼ keys to select the next or previous stored channel.

DISPLAY
Press DISPLAY to view the current status of the DVD Recorder+VCR.

AUDIO
Press the AUDIO button when watching TV to select among available audio signals.
Stereo - Stereo sound.
Mono - Choose if Stereo is not available, or if the sound quality in stereo mode is poor.
SAP - Secondary Audio Program. Choose to hear a simultaneous broadcast, usually a second language.

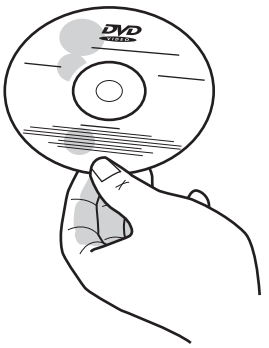
NOTE:
- *If the ⊘ symbol appears on the TV screen when you press a button, the selected function is not available.*

Basic DVD/VCR Playback

Playing a DVD/VCD

To play a DVD or Video CD:

1. Press DVD to control the DVD deck.
2. Turn your TV on and select the video input connected to the DVD Recorder+VCR.
   - If the unit is connected to an audio system, turn it on and select the appropriate input.
3. Press EJECT to open the disc tray.
4. Load your disc in the disc tray with the label side up.
   - Press EJECT to again to close the disc tray.

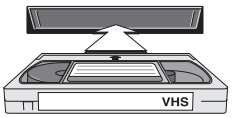


5. Press PLAY ▸ to start playback.
   - Many DVD discs play automatically when loaded.
   - If the DVD has a disc menu, or more than one title, the disc menu may appear. If so, use ◂ ▸ ▴ ▾ to highlight options, and press ENTER to make selections. Press DISC MENU/LIST or TITLE to return to the disc menu.
   - For a Video CD, use the 0-9 keys to select the track you want to view and press RETURN to view the menu screen.
   - For options during DVD playback, see page 35.

Playing a Tape

To play a VHS tape:

1. Press VCR to control the VCR deck.
2. Turn your TV on and select the video input connected to the DVD Recorder+VCR.
   - If the unit is connected to an audio system, turn it on and select the appropriate input.
3. Load your videotape in the VCR deck.
   - If the unit is powered off, it will power on automatically when the tape is loaded.
   - If the Timer indicator lights on the front panel display, press POWER once.



4. Press PLAY ▸ to start playback.
   - If the tape is missing the record safety tab, it will play automatically when loaded.
   - For options during VCR playback, see page 36.

Special DVD Playback Options

Use these keys during DVD playback:

A-B
Sets two points (A and B) to repeat in a continuous loop. Press once to set point A. Press twice to set point B. Press three times to cancel.

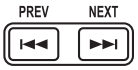
AUDIO
Displays alternative soundtracks/audio formats on the DVD (if available).

DISPLAY
Press once to view current disc status. Press twice to view playback options for the current disc. Use the ▲ ▼ and ENTER keys to select the desired option. Then use the ◀ ▶ keys to select specific Title, Chapter, Time, Audio, Subtitle, Angle, and Sound options.

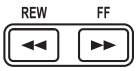
MARKER
Bookmarks up to 6 scenes during playback. Press SEARCH to jump to your bookmarks.

PAUSE/STEP II
Pauses playback. Press repeatedly to step forward one frame at a time. You can also use ◀ ▶ to step backward and forward while in Pause mode.

PLAY MODE
Repeats the current chapter/track, title, or disc.



PREV⏮/NEXT⏭
Skips to the previous or next chapter.



REW◀◀/FF▶▶
Scans backward/forward at variable speeds. In Pause mode, press REW◀◀/FF▶▶ for reverse and forward slow motion playback.

SEARCH
Allows you to jump to any saved bookmarks. Press MARKER to set bookmarks. During VCD playback, displays a progress bar. Use the ◀ ▶ keys to find the desired starting position and press ENTER.

STOP■
One press stops and holds playback at current playback position. Two presses stops and restarts disc from beginning.

TITLE
Displays the DVD title menu (if available).

ZOOM
Magnifies the on-screen image at variable sizes. While in Zoom mode, use the arrow keys to scroll around the enlarged image.

Special VCR Playback Options

Use these keys during VCR playback:

AUDIO
Sets tape audio to HiFi, Left, Right or Mono.

CLEAR
Resets the current tape counter position to 0:00:00. To automatically go to tape counter position 0:00:00, press RETURN while the tape is in Stop mode.

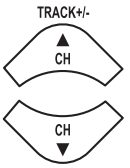
DISPLAY
Displays playback information, including elapsed time and playback status.

FF ▶▶
Scans forward at high speed. In Stop mode, fast-forwards the tape. In Pause mode, starts slow motion playback.

PAUSE/STEP ❚❚
Pauses playback. Press repeatedly to step forward one frame at a time. If the picture vibrates during Pause mode, use the TRACK+/- keys to stabilize it. If the unit is left in Pause mode for more than 5 minutes, the unit will stop automatically to protect the video heads.

REW ◀◀
Scans backward at high speed. In Stop mode, rewinds the tape.

STOP ■
Stops tape playback. If the tape ends before STOP ■ is pressed, the tape will rewind and eject automatically.



TRACK+/-
Manually reduces noise on the screen during tape playback. Tracking is set automatically when a tape is inserted.

NOTE:

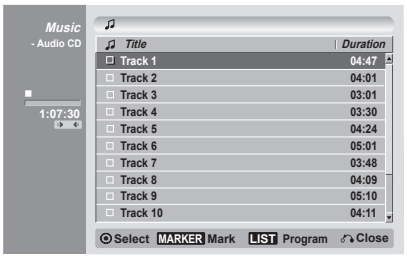
- *The VCR deck features S-VHS Quasi Playback (SQPB) so you can play back S-VHS recorded tapes.*

Audio CD/MP3 Playback

Playing Audio CDs or MP3/ WMA Files

To play an Audio CD, or MP3/WMA files on a recordable CD/DVD:

1 Load your disc in the disc tray.
- The "Music" menu appears.



2 Use the ▲ ▼ keys to select a track, then press PLAY ▶ to start playback.
- For MP3/WMA discs, first select the desired folder then press ENTER twice to open it.
- When you select a track, you can add it to a custom playlist by selecting "Program Add".

Special Audio Playback Options

A-B
Sets two points (A and B) to repeat in a continuous loop. Press once to set point A. Press twice to set point B. Press three times to cancel. (Audio CD only).

AUDIO
Sets audio channel to Stereo, Left, or Right.

DISPLAY
Displays ID3 tag info for your MP3 files.

PAUSE/STEP ⏸
Pauses playback. To resume, press PAUSE/STEP ⏸ again or PLAY ▶.

PLAY MODE
Repeats the current track, disc, or folder. Also selects Random playback option.

PREV ⏮ /NEXT ⏭
Skips to the previous or next track.

RETURN
Switches to TV view while listening to music. Press DISC MENU/LIST to return to the "Music" menu.

REW ◀◀ /FF ▶▶
Scans backward/forward at variable speeds (Audio CD only).

STOP ■
Stops playback.

TITLE
If the disc also contains JPEG images, press TITLE to switch between Music & Photo view.

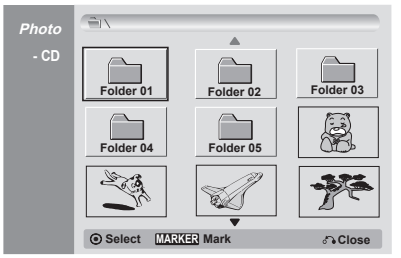
NOTE:
- *See Technical Specs on page 60 for MP3/WMA disc requirements.*

JPEG Playback

Viewing JPEG Files

To play JPEG files on a recordable CD or DVD:

1. Load your disc in the disc tray.
   - The "Photo" menu appears.



2. Use the arrow keys to select an image (or folder), then press ENTER.
3. Choose from the following options:

   Open - Opens the selected folder and displays all files in the folder.

   Full Screen - Displays the selected image at full screen size (see options in right column).

   Slide Show - Displays the "Slide Show" menu (see below).

Viewing Slide Shows

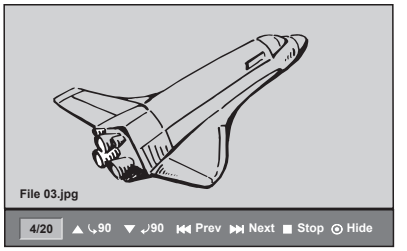
1. Select "Slide Show" and press ENTER.
2. Set the following options:

   Object - Allows you to view all photos, or only selectively marked photos. To mark a photo, highlight it and press MARKER. A checkmark will appear next to selected images. Press CLEAR to clear all markers.

   Speed - Sets the slide show speed to Slow, Normal, or Fast.
3. Select "Start" and press ENTER to start the slide show.
   - To stop the slide show and return to the "Photo" menu, press STOP ■.

Full Screen Options

In Full Screen view, a toolbar appears below the image:



- Press ENTER to toggle the toolbar on and off.
- Press STOP ■ to return to the "Photo" menu.
- Press ▼ to rotate the image clockwise.
- Press ▲ to rotate the image counter-clockwise.
- Press PREV⏮/NEXT⏭ to skip to the previous or next image.
- Press PAUSE/STEP ⏸ to pause a slide show in progress.
- Press RETURN to switch to TV view. Press DISC MENU/LIST to return to the "Photo" menu.
- If the disc also contains MP3/WMA files, press TITLE to switch between Photo & Music view.

NOTE:

- *See Technical Specs on page 60 for JPEG disc requirements.*

About Recording

About Disc Types/Formats

- DVD-R, DVD+R, DVD+RW discs are always formatted in "Video" mode—the same as pre-recorded DVD-Video discs. Once finalized, you can play DVD-R, DVD+R, or DVD+RW discs in most regular DVD players.
- DVD-RW discs can be formatted in "Video Recording (VR)" or "Video" mode. VR mode allows maximum editing features, while Video mode allows maximum compatibility with other DVD players.
- The DVD Recorder+VCR cannot record CD-R or CD-RW discs.

Notes on Recording

- The recording times shown are not exact because the DVD Recorder+VCR uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.
- If your TV reception is poor or the picture contains interference, the recording times may be shorter.
- If you record still pictures or audio only, recording times may be longer.
- The displayed times for recording and time remaining may not always add up to exactly the length of the disc.
- The recording time available may decrease if you heavily edit a disc.
- If using a DVD-RW disc, make sure you set the recording format (Video mode or VR mode) before you record anything on the disc; see page 29.
- When using a DVD-R or DVD+R disc, you can keep recording until the disc is full, or until you finalize the disc. Before you start a recording session, check the amount of recording time left on the disc.
- When using a DVD-RW disc in Video mode, recording time available will only increase if you erase the last title recorded on the disc.
- The "Delete Title" option in the "Title List-Original" menu only hides the title, it does not actually erase the title from the disc and increase the recording time available (except for the last recorded title on a DVD-RW disc in Video mode).
- You can overwrite recordings when using DVD+RW discs.
- When you eject a DVD+R/RW, the DVD Recorder+VCR will display "Making a Menu" on screen and automatically update the disc menu with any new titles and/or edits.
- Fingerprints and small scratches on a disc can affect playback and/or recording performance. Please take proper care of your discs.
- The company does not hold any responsibility to compensate for contents which should have been recorded, and any losses or damages (e.g., losses of business profit, or business intermission) that may arise from malfunction of this recorder (e.g., not recording/editing as intended).

Basic Recording

Recording from TV

To record a TV show to a DVD or VHS tape:

1. Turn on the DVD Recorder+VCR and load a recordable disc or tape.
   - Make sure your TV input is set to view the DVD Recorder+VCR.
2. Press DVD to control the DVD deck, or VCR to control the VCR deck.
3. Press REC MODE to set the desired recording quality:

   REC MODE

   DVD - XP (1 hr/disc), SP (2 hrs/disc), LP (4 hrs/disc), EP (6 hrs/disc)

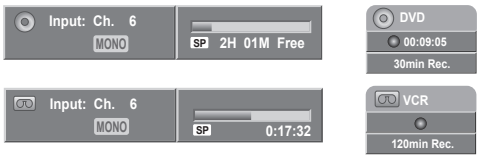
   VCR (T-120 tape) - SP (2 hrs/tape), SLP (6 hrs/tape)
4. Press CH ▲ / ▼ to select the TV channel you wish to record.
5. Press AUDIO to set the audio channel to record (Stereo, Mono, or SAP).
6. Press REC ● once.

   REC
   - Recording will start.
   - Recording continues until you press STOP ■ or the disc is full.
7. Options during recording:
   - Press PAUSE/STEP II to pause recording.
   - While paused, you can change channels or inputs.
   - Press PAUSE/STEP II or REC ● to resume recording.
   - Press DISPLAY to check the progress of the recording.
   - To record for a fixed length of time, see "One Touch Recording" at right.

One-Touch Recording

To add recording time in fixed increments:

- Press REC ● repeatedly to set the length of the recording:



  DVD - Each press adds 10 minutes to the recording time.

  VCR - Each press adds 30 minutes to the recording time (up to 540 minutes).
- To cancel One-Touch Recording, press PAUSE/STEP II .
- The DVD Recorder+VCR will power off automatically when the recording time has elapsed (unless you are using the non-recording deck).

Watching and Recording

- To record to DVD while watching a tape, press DVD and then press REC ● .
- To record to VCR while watching a DVD, press VCR and then press REC ● .
- To record one show while watching another, press TV/VCR and select the desired channel on your TV (RF connection only).

NOTE:

- *The maximum numbers of titles per DVD-R/RW is 99 (per DVD+R/RW is 49).*
- *If the DVD Recorder+VCR is powered off during DVD recording, the recording will not be saved.*

Recording From External Devices

Recording from a Camcorder/Other Device

To record from a camcorder or other external device:

1. Connect your external device to the front or rear inputs; see pages 18-19.
2. Press INPUT repeatedly to view:

   AV1 - For a device connected to the rear AV1 Input.

   AV2 - For a device connected to the front AV2 Input.

   DV - For a device connected to the front DV Input.
3. Load a recordable disc or tape.
4. Press REC MODE to set the desired Recording quality:

   DVD - XP (1 hr/disc), SP (2 hrs/disc), LP (4 hrs/disc), EP (6 hrs/disc)

   VCR (T-120 tape) - SP (2 hrs/tape), SLP (6 hrs/tape)
5. Cue the external device to the point you want to start recording.
6. Press REC ● once.
   - Recording will start.
   - Recording continues until you press STOP ■ or the disc is full.
7. Options during recording:
   - Press PAUSE/STEP **II** to pause recording.
   - Press PLAY ▸ or REC ● to resume recording.
   - Press DISPLAY twice to check the progress of the recording.
   - To record for a fixed length of time, see "One Touch Recording" on page 40.

NOTE:

- *If your source is copy-protected, you will not be able to record it using the DVD Recorder+VCR.*

Notes on DV Recording

- The DV Input is for DVC-SD format digital camcorders only. Digital satellite tuners and Digital VHS video recorders are not compatible.
- Many DV functions can be controlled using the DVD Recorder+VCR remote, including Stop, Play, and Pause (not all camcorders can be controlled).
- Before recording to DV, make sure "DV Record Audio" is set correctly in the menu system; see page 28.
- Audio input to the DV IN jack should be 32kHz or 48kHz (not 44.1kHz).
- Picture distortion may occur during recording if the source component is paused or plays an unrecorded section of tape; if the power fails in the source component; or if the DV cable becomes disconnected.

DV Troubleshooting

If you cannot get a picture and/or audio through the DV IN jack, check the following:

- Make sure the DV cable is properly connected.
- Try powering off the connected device, then powering it back on.

Timer Recording

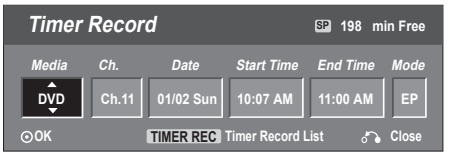
Setting a Timer Recording

You can program up to 8 recordings up to a month in advance. To program a timer recording:

1 Before you begin, make sure the clock is set correctly; see page 23.

2 Insert a recordable disc or VHS tape.

3 Press TIMER to display the "Timer Record" menu:



4 Use ◀ / ▶ to select and ▲ / ▼ to set the following:

Media - Choose the desired media (DVD or VCR).

Channel – Choose the desired channel, or one of the external inputs (AV1 or AV2) from which to record.

Date – Choose a date up to one month in advance, or select a Daily (e.g.,"Mo~Fri") or Weekly (e.g.,"Every Fri") recording.

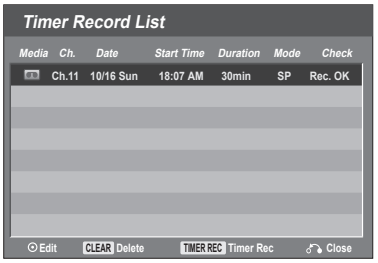
Start Time – Set the recording start time.

End Time – Set the recording end time.

Mode – Set the DVD Record Mode to XP, SP, LP, EP, or AT; or set the VCR Record Mode to SP, SLP, or AT. AT(Auto) mode determines how much time is available on the disc or tape and switches record mode, if necessary, to complete recording the program.

5 When finished, press ENTER to save the recording.

- The "Timer Record List" menu will appear with a summary of all programmed recordings.



6 Press RETURN to exit the "Timer Record List" menu.

- The timer indicator on the front panel display will light or blink.

7 Power off the DVD Recorder+VCR to start the Timer Recording.

NOTE:

- *You can edit a programmed Timer Recording by pressing TIMER twice. Select the desired recording and press ENTER to view and/or change program details.*

Timer Recording *(continued)*

Timer Recording Notes

- The Timer indicator lights on the front panel display when the DVD Recorder+VCR is ready for timer recording.
- If the Disc and Tape indicator are blinking, either no disc or tape is loaded, or the loaded disc is not recordable.
- The DVD Recorder+VCR will record the audio according to the current TV tuner setting (Stereo, Mono or SAP). Use the AUDIO button to set the audio before turning off the DVD Recorder+VCR.
- The DVD Recorder+VCR will automatically power off when the Timer Recording ends (unless the non-recording deck is in use).
- There is a short delay when a timer recording finishes to confirm the recorded program. If two timer recordings are set to record sequentially (one right after the other), the very beginning of the later program may not be recorded.

Canceling a Timer Recording

You can clear a Timer Recording any time before the recording actually starts.

1. Use ▲/▼ to select the program you want to erase on the Timer Recorder List.
2. Press CLEAR and select "OK" to delete the program.

Stopping a Timer Recording in Progress

After a Timer Recording has started, you can still cancel the program by pressing STOP ■.

Timer Recording Troubleshooting

Even if a Timer Recording is set, the DVD Recorder+VCR will not record if:

- No disc (or tape) is loaded.
- A non-recordable disc (or tape) is loaded.
- The disc is protected in the Setup menu; see page 30.
- There are already 99 titles (DVD-R/RW) or 49 titles (DVD+R/RW) recorded on the disc.

You cannot enter a Timer Recording if:

- A recording is already in progress.
- The start time has already passed.
- Eight Timer Recordings have already been programmed.

If two or more Timer Recordings overlap:

- The earlier program takes priority.
- When the earlier program finishes, the later program starts.
- If two programs are set to start at exactly the same time, the program entered first takes priority.

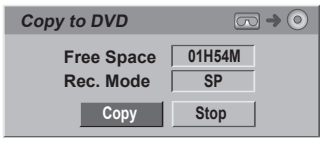
If the recordable disc is damaged, the recording may not complete successfully, even if the Check field shows 'Rec. OK'.

One Touch Copy

Copying VCR to DVD

To copy a VHS tape to DVD:

1. Insert the tape you wish to copy in the VCR deck and close the tray.
2. Insert a recordable disc in the DVD deck.
3. Press VCR to control the VCR deck.
4. Find the place on the tape from which you want to start recording (using the PLAY ▶, FF ▶▶, and REW ◀◀ keys), then press PAUSE/STEP ❚❚.
5. Press COPY.
   - The "Copy to DVD" menu appears:

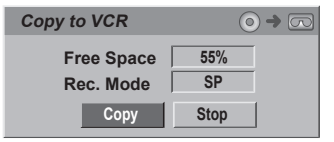


6. Use the arrow keys to select the desired Record Speed (XP, SP, LP, or EP).
7. Select "Copy" and press ENTER or COPY to start copying.
   - During the copy process, you can pause and reposition the tape by pressing PAUSE/STEP ❚❚ and then using the deck control keys.
   - Press COPY twice to resume copying.
8. Press STOP ■ to stop copying.
   - Copying will stop automatically when the VHS tape ends.

Copying DVD to VCR

To copy a DVD to VHS tape:

1. Insert the disc you wish to copy in the DVD deck and close the tray.
2. Insert a blank VHS tape in the VCR deck.
3. Press DVD to control the DVD deck.
4. Find the place on the DVD from which you want to start recording (using the PLAY ▶, FF ▶▶, and REW ◀◀ keys), then press PAUSE/STEP ❚❚.
5. Press COPY.
   - The "Copy to VCR" menu appears:



6. Use the arrow keys to select the desired Record Speed (SP or SLP).
7. Select "Copy" and press ENTER or COPY to start copying.
   - During the copy process, you can pause and reposition the DVD by pressing PAUSE/STEP ❚❚ and then using the deck control keys.
   - Press COPY twice to resume copying.
8. Press STOP ■ to stop copying.
   - You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

NOTE:

- *It is not permitted to copy Macrovision encoded material. If the tape or disc you are attempting to copy is copy-protected, you will not be able to copy it.*

About Editing

Editing Terminology

The following are editing terms used by this DVD Recorder+VCR:

Title – A recording (such as a TV show) on a DVD. Each time you start a new recording, a new title is created.

Chapter – Sections of a title. You can have chapters created automatically every 5 or 10 minutes during recording; see page 28. Or you can add chapters manually; see page 46.

Title List Menu – A directory of all titles on a recordable disc. You can view the "Title List" menu by pressing DISC MENU/LIST on the remote control. The "Title List" menu is the main screen for editing your DVD.

Chapter List Menu – A directory of all chapters in a selected title. To view the "Chapter List" menu, select a title, press ENTER, and select "View Chap."

Original Content – A disc's original content. When you edit original content, you permanently change the content on the disc.

Playlist Content – The edited version of the original content. When you edit playlist content, you do not change the content on the disc; you only affect how that disc is played. Playlists are only available on DVD-RW discs formatted in VR mode.

Video Mode – The default format for DVD-R, DVD+R, and DVD+RW discs, and an optional format for DVD-RW discs. Allows limited editing features.

VR Mode – An optional format for DVD-RW discs which allows for extensive editing.

Editing Options by Disc Type

The following edits can be made to your recordable DVDs, depending on the type of disc:

	+R	+RW	-R	-RW (Video)	-RW (VR)
Adding Chapter Markers (page 46)	X	X			X
Changing Title Thumbnails (page 46)	X	X			X
Making a New Playlist (page 47)					X
Adding Titles/Chapters to a Playlist (page 47)					X
Deleting an Original Title/Chapter (page 48)	X	X	X		X
Deleting a Playlist Title/Chapter (page 48)					X
Deleting Part of a Title (page 48)					X
Naming an Original Title (page 49)	X	X	X	X	X
Naming a Playlist Title (page 49)					X
Changing Playlist Order (page 49)					X
Splitting a Title (page 50)		X			
Combining Two Chapters (page 50)	X	X			X
Hiding a Chapter or Title (page 51)	X	X			
Protecting a Title (page 51)	X	X			X
Overwriting a Recording (page 52)		X			
Previewing a Title List Menu (as it would be seen on other DVD players)(page 52)	X	X			

Editing Options

Adding Chapter Markers

+R, +RW, -RW (VR)

You can divide your titles up into chapters by adding chapter markers during playback or recording.

1. Press DISC MENU/LIST.
2. Select a recorded title and press PLAY ▸.
3. During playback, press ADD CHAP to add a chapter marker at the current playback position.
   - A chapter marker icon appears briefly on the TV screen.

4. Repeat Step 3 to continue adding chapter markers.
   - To have chapter markers inserted automatically every 5 or 10 minutes, see "Auto Chapter Marking"; page 28.
   - You can also press ADD CHAP during recording to insert chapter markers.

Viewing Chapters

To view the chapters you have created:

1. Press DISC MENU/LIST.
2. Select a recorded title and press ENTER.
3. Select "View Chap" and press ENTER.
   - The "Chapter List" menu is displayed with a thumbnail directory of all chapters within the title.

Changing Title Thumbnails

+R, +RW, -RW (VR)

Each title in the "Title List" menu is represented by a thumbnail image taken from the start of that title. To choose a different thumbnail image for a title:

1. Press DISC MENU/LIST.
2. Select a recorded title (or chapter) and press PLAY ▸.
3. During playback, press THUMBNAIL when the see the image you want to use.
   - Use the PAUSE/STEP ❚❚ and ◂ / ▸ keys to pinpoint an exact frame.
   - A thumbnail icon appears briefly on the TV screen.

4. The old thumbnail image is replaced with the new one.
5. To view the new thumbnail image, press DISC MENU/LIST.

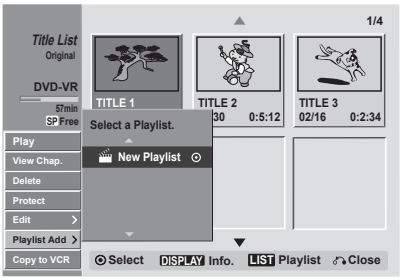
Editing Options *(continued)*

Making a New Playlist

-RW (VR)

You can create a custom playlist of the contents of your recorded discs. You can then edit this playlist without disturbing the original contents of the disc.

1. Press DISC MENU/LIST.
2. Select the first title (or chapter) you want to add to your new playlist and press ENTER.
3. Select "Playlist Add" and press ENTER.
4. Select "New Playlist" and press ENTER.



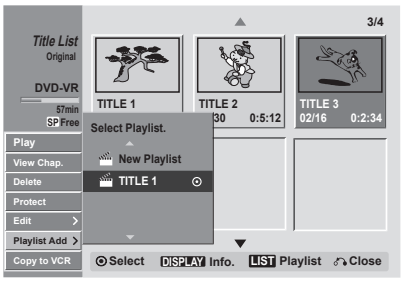
5. A new playlist is created with the name "TITLE #".
   - The "Title List-Playlist" menu is displayed with a thumbnail directory of all titles in your new playlist.

Adding Titles/Chapters to a Playlist

-RW (VR)

Once you've created a playlist, you can add titles and chapters to it. You can even add the same title or chapter multiple times:

1. Press DISC MENU/LIST.
2. Select the title (or chapter) you want to add to your playlist and press ENTER.
3. Select "Playlist Add" and press ENTER.
4. Select the name of your playlist (e.g, "TITLE 1") and press ENTER.



5. Repeat steps 2-4 to add more titles or chapters to your playlist.
   - To view the added chapters in your playlist, select "View Chap." and press ENTER.
   - To switch between the "Original" and "Playlist" menus, press DISC MENU/LIST.
   - To exit, press RETURN.

Editing Options *(continued)*

Deleting Titles/Chapters

+R, +RW, -R, -RW (Video), -RW (VR)

There are two places to delete titles and chapters:

Playlist Menu - If you delete a title or chapter from the "Playlist" menu, it is only removed from the playlist; the title/chapter remains in the "Original" menu.

Original Menu - If you delete a title or chapter from the "Original" menu, it is permanently deleted from the disc, and the remaining time available for recording increases.

- Titles/chapters deleted from the "Original" menu are also removed from the "Playlist" menu.

1. Press DISC MENU/LIST.
2. Select a title (or chapter) to delete and press ENTER.
3. Select "Delete" and press ENTER.
4. Select "OK" and press ENTER to confirm.
   - The selected title or chapter is deleted.
5. Repeat steps 2 - 4 to delete more titles or chapters.
6. Press RETURN repeatedly to exit.

NOTE:

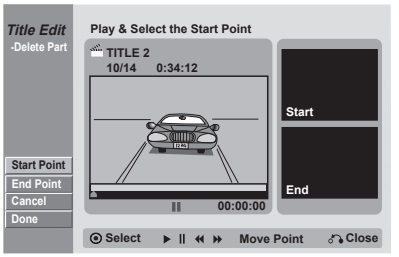
- *Titles deleted from DVD+RW discs are renamed to "Deleted Title".*
- *Only the last deleted title on a DVD+R/RW increases the available recording time.*
- *It may not be possible to delete chapters less than 5 seconds long.*

Deleting Part of a Title

-RW (VR)

To cut an individual scene from a recorded title:

1. Press DISC MENU/LIST.
2. Select the title with the scene you wish to cut and press ENTER.
3. Select "Delete Part" and press ENTER.
   - The "Title Edit-Delete Part" menu appears.



4. Press PLAY ▶ to start playback.
5. When playback reaches the start of the scene you wish to cut, press ENTER.
   - Playback is paused, and a thumbnail of the starting frame is displayed.
   - Use the PAUSE/STEP ❚❚ and ◀ / ▶ keys to pinpoint an exact frame.
6. Press PLAY ▶ again to start playback.
7. When playback reaches the end of the scene you wish to cut, press ENTER.
   - The part to be deleted is indicated on the Progress Bar.
8. Select "Done" and press ENTER to cut the selected scene.
9. Select "OK" and press ENTER to confirm.
   - It may not be possible to delete scenes less than 3 seconds long.

Editing Options *(continued)*

Naming a Title

+R, +RW, -R, -RW (Video), -RW (VR)

To name a recorded title (up to 32 characters):

1. Press DISC MENU/LIST.
2. Select the title you wish to name and press ENTER.
3. Select "Rename" or "Edit" > "Rename" and press ENTER.
   - The keyboard menu appears.

4. Enter a name for the title.
   - Use the arrow keys to select characters, pressing ENTER after each to add them to the name.
5. You can also select:

   Language - To select among 3 keyboard types.

   Space - To insert a space.

   Delete - To delete a character.

   ◀ / ▶ - To move the cursor left or right.

   OK - To confirm the name you have entered.

   Cancel - To delete all entered characters and exit the keyboard menu.

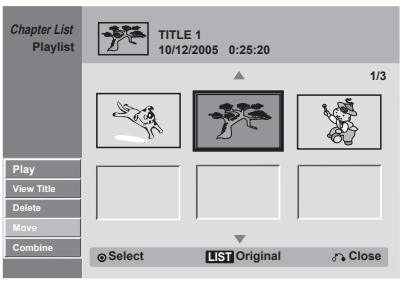
NOTE:
- *When using DVD-R, DVD+R or DVD+RW discs, the name you enter is displayed only after finalization.*

Changing Playlist Order

-RW (VR)

To rearrange the order of chapters in a playlist:

1. Press DISC MENU/LIST until the "Title List-Playlist" menu appears.
2. Select the title you wish to rearrange and press ENTER.
3. Select "View Chap" and press ENTER.
   - The "Chapter List-Playlist" menu appears.
4. Select the chapter you wish to move and press ENTER.
5. Select "Move" and press ENTER.



6. Move the cursor to the new position in the title and press ENTER.
   - The chapter is moved to the new position.
7. Repeat steps 4-6 to move more playlist chapters.

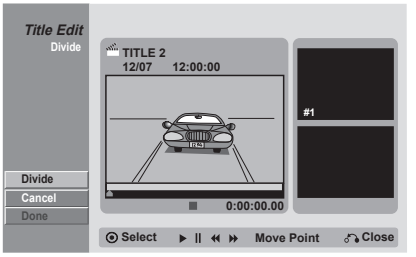
Editing Options *(continued)*

Splitting a Title

+RW

To split a title into two parts:

1. Press DISC MENU/LIST.
2. Select the title you wish to split and press ENTER.
3. Select "Divide" and press ENTER.
   - The "Title Edit-Divide" menu appears.



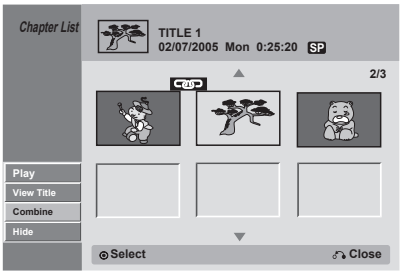
4. Press PLAY ▶ to start playback.
5. When playback reaches the point at which you want to divide the title, press ENTER.
   - Use the PAUSE/STEP ⏸ and ◀ / ▶ keys to pinpoint an exact frame.
   - To reset the point, select "Cancel" and press ENTER.
6. Select "Done" and press ENTER to split the title.
7. Select "OK" and press ENTER to confirm.
   - This process may take several minutes to complete.
   - You cannot select a dividing point that would create a title less than 3 seconds.

Combining Two Chapters

+R, +RW, -RW (VR)

To combine two adjacent chapters into one:

1. Press DISC MENU/LIST.
2. Select the title with the chapters you wish to combine and press ENTER.
3. Select "View Chap." and press ENTER.
   - The "Chapter List" menu appears.
4. Select the second chapter of the two you want to combine, and press ENTER.
5. Select "Combine".
   - A link icon appears above the two chapters.



6. Press ENTER.
   - The adjacent chapters are combined into a single chapter.

NOTE:

This function is not available...

- *If there is only one chapter in the title.*
- *If you select the first chapter in the title.*
- *If the two chapters are from different titles.*

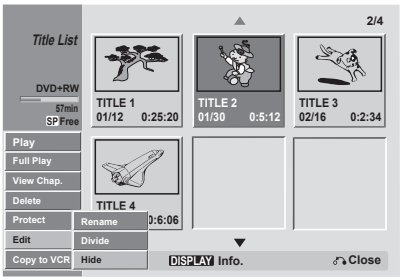
Editing Options *(continued)*

Hiding a Title or Chapter

+R, +RW

To hide a title or chapter from playing (without deleting it from the disc):

1. Press DISC MENU/LIST.
2. Select the title or chapter you wish to hide and press ENTER.
3. Select "Hide" and press ENTER.



- The thumbnail for the selected title or chapter will dim.

4. When you play the disc, the hidden titles or chapters will be omitted.

Unhiding a Title or Chapter

To unhide a title or chapter, select it and choose "Show".

Playing Hidden Titles/Chapters

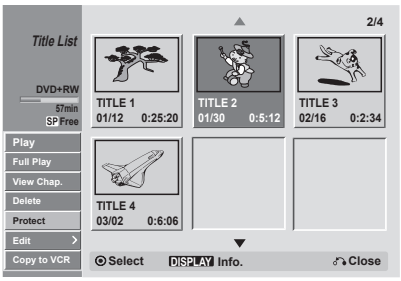
Even if you have hidden titles or chapters on a disc, you can still view them by choosing "Full Play".

Protecting a Title

+R, +RW, -RW (VR)

To protect a title from accidental recording, editing or deleting:

1. Press DISC MENU/LIST to display the "Title List" menu.
2. Select the title you wish to protect and press ENTER.
3. Select "Protect" and press ENTER.
   - A lock icon appears on the title's thumbnail.



Unlocking a Protected Title

To unlock a protected title, select it and choose "Unprotect".

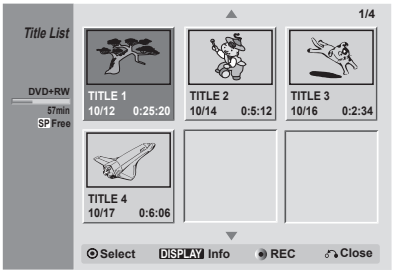
Editing Options *(continued)*

Overwriting a Title

+RW

To overwrite an existing title with a new recording:

1. Use the CH ▲ / ▼ or INPUT keys to select the source you want to record (Ch#, AV1, AV2, or DV).
2. Press DISC MENU/LIST to display the "Title List" menu.
3. Select the title you want to overwrite.



4. Press REC ● to start overwriting the selected title.
   - The new recording begins from the starting point of the selected title.
5. Press STOP ■ to stop the recording.
   - The new title is created and the updated menu is displayed.

NOTE:

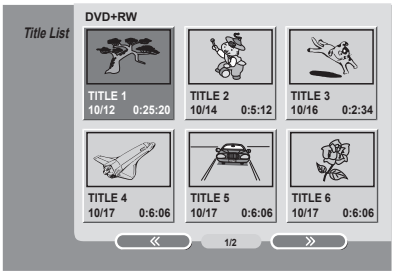
- *This function is not available if the title is protected.*
- *If the new recording is longer than the overwritten recording, the next title is overwritten as well. But if the next title is protected, recording stops at the starting point of the next title.*
- *If the selected title is less than 10 seconds, the next title is overwritten. But if the next title is protected, recording stops.*

Previewing a Title List Menu

+R, +RW

To view how a "Title List" menu would be displayed on another DVD player:

1. Insert a DVD+R or DVD+RW disc with recorded titles.
2. Press TITLE during Play mode or Tuner mode.
   - The "Title List" menu will appear as shown below.



3. To play a title, select it then press ENTER or PLAY ▶.
   - To exit the "Title List" menu, press STOP ■.

Playing Edited Discs on Other DVD Players

Most regular DVD players can play finalized discs recorded in Video mode, finalized DVD+R or DVD+RWs. A small number of players can also play DVD-RW discs recorded in VR mode, finalized or not. To finalize a disc, see page 30.

- Unfinalized DVD+RW discs are playable on regular DVD players.
- The edited contents of a DVD+RW disc are compatible on regular DVD players only after finalization.
- Any edited contents of a DVD+R disc are not compatible on regular DVD players (e.g., Hide, Combine, Chapter Marks, etc.).

5 Help

This Chapter shows you how to get help, including troubleshooting, customer support, and warranty information.

Programming the Remote

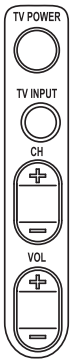
Programming the Remote to Control Your TV

You can program the DVD Recorder+VCR remote control to operate many TV brands and models.

1. In the chart at right, find the code(s) corresponding to your brand of TV.
2. While holding down the TV POWER button, enter the 2-digit code number using the 0-9 buttons.
3. If your TV powers off or on, programming is complete. If not, repeat step 2 using the next code listed for your brand of TV.

Buttons Used to Operate Your TV

Once the remote control is programmed, you can use the following buttons to control your TV:



TV POWER - Turns your TV on or off.

TV INPUT - Changes the input on your TV.

CH +/– Selects channels on your TV.

VOL +/- Adjusts volume on your TV.

TV CODES BY BRAND

TV Brand Name	Codes	TV Brand Name	Codes
ADMIRAL	16,33,37,44,45	MONTGOMERY WARD	01,06,08,09, 23,24,32,33,34
AIWA	70	NEC	01,08
AKAI	01	NOBLEX	07
AMARK	09	PACKARD BELL	43
AOC	01	PANASONIC	07,11,13,25,35,36
BELL & HOWELL	33	PHILCO	01,06,07,08,09, 15,38,43,58
BROKSONIC	18,19	PHILIPS	06,07,43,61,62,65
CANDLE	51	PIONEER	30
CCE	07	PORTLAND	09
CENTURION	08	PROSCAN	03,37,44
CINERAL	43	QUASAR	11,13
CITIZEN	49,50,51,52,53,54,55	RADIO SHACK	16,17,23
CORONADO	09	RCA	01,03,37,44,69
CROWN	09	REALISTIC	16,17,23
CURTIS MATHES	01,03,08,33,35,37,44	SAMPO	08
DAEWOO	16,38,39,40,41,42,43	SAMSUNG	01,08,09,25,68
DAYTRON	01,08	SANYO	28,29
EMERSON	01,09,16,17,18,19	SCOTT	01,08
FISHER	28,29	SEARS	09,25,26,27,28,29
FUNAI	46,47	SEMP	64
GENERAL ELECTRIC	03,10,11,13,37,44	SHARP	09,22,23,24,60,66
GRADIENTE	01,56,57,63,67	SIGNATURE 2000	01,06,08,09,10, 23,24,33,34
HITACHI	09,14,15,43	SONY	12,62
JC PENNEY	01,08,10,27,35	SOUNDESIGN	51
JVC	20,21,63,67	SYLVANIA	01,04,05,06,07, 08,35,51
KIOTE	43	SYMPHONIC	46,47
KMC	09	TATUNG	11
KTV	01,08,09,31	TEKNIKA	07,09,16,33,51
LG (GOLDSTAR)	01,07,08,09,35,39,40	TELERENT	09,33
LODGENET	33	THOMSON	69
LOGIK	33	YORX	08
LXI	09,24,25,26,27,28,29	TOSHIBA	01,25,26,27,64
MAGNAVOX	01,02,04,05,06, 07,08,09,20, 34,35,43,51,61,62,65	WARDS	01,06,08,09,10,33,34
MAJESTIC	33	XR1000	48
MARANTZ	01,32	ZENITH	02,33,59
MEMOREX	33		
MGA/MITSUBISHI	01,08,32,34		

NOTE:

- *Due to the variety of codes used by manufacturers, our company cannot guarantee that the remote control will operate every model of the brands listed.*

Language Codes

Use this list to input your language preferences for the Disc Audio, Disc Subtitle, and Disc Menu settings; see page 25.

Abkhazian	6566	Hausa	7265	Rumanian	8279
Afar	6565	Hebrew	7387	Russian	8285
Afrikaans	6570	Hindi	7273	Samoan	8377
Albanian	8381	Hungarian	7285	Sanskrit	8365
Ameharic	6577	Icelandic	7383	Scots Gaelic	7168
Arabic	6582	Indonesian	7378	Serbian	8382
Armenian	7289	Interlingua	7365	Serbo-Croatian	8372
Assamese	6583	Irish	7165	Shona	8378
Aymara	6588	Italian	7384	Sindhi	8368
Azerbaijani	6590	Japanese	7465	Language	Code
Bashkir	6665	Javanese	7487	Singhalese	8373
Basque	6985	Kannada	7578	Slovak	8375
Bengali; Bangla	6678	Kashmiri	7583	Slovenian	8376
Bhutani	6890	Kazakh	7575	Somali	8379
Bihari	6672	Kirghiz	7589	Spanish	6983
Breton	6682	Korean	7579	Sudanese	8385
Bulgarian	6671	Kurdish	7585	Swahili	8387
Burmese	7789	Laothian	7679	Swedish	8386
Byelorussian	6669	Latin	7665	Tagalog	8476
Cambodian	7577	Latvian, Lettish	7686	Tajik	8471
Catalan	6765	Language	Code	Tamil	8465
Chinese	9072	Lingala	7678	Tatar	8484
Corsican	6779	Lithuanian	7684	Telugu	8469
Croatian	7282	Macedonian	7775	Thai	8472
Czech	6783	Malagasy	7771	Tibetan	6679
Danish	6865	Malay	7783	Tigrinya	8473
Dutch	7876	Malayalam	7776	Tonga	8479
English	6978	Maltese	7784	Turkish	8482
Esperanto	6979	Maori	7773	Turkmen	8475
Estonian	6984	Marathi	7782	Twi	8487
Faroese	7079	Moldavian	7779	Ukrainian	8575
Language	Code	Mongolian	7778	Urdu	8582
Fiji	7074	Nauru	7865	Uzbek	8590
Finnish	7073	Nepali	7869	Vietnamese	8673
French	7082	Norwegian	7879	Volapük	8679
Frisian	7089	Oriya	7982	Welsh	6789
Galician	7176	Panjabi	8065	Wolof	8779
Georgian	7565	Pashto, Pushto	8083	Xhosa	8872
German	6869	Persian	7065	Yiddish	7473
Greek	6976	Polish	8076	Yoruba	8979
Greenlandic	7576	Portuguese	8084	Zulu	9085
Guarani	7178	Quechua	8185		
Gujarati	7185	Rhaeto-Romance	8277		

Country Codes

Use this list to input your preferred country for the Parental Lock setting; see page 27.

Afghanistan	AF	Islands	HM	Philippines	PH
Argentina	AR	Hong Kong	HK	Poland	PL
Australia	AU	Hungary	HU	Portugal	PT
Austria	AT	India	IN	Romania	RO
Belgium	BE	Indonesia	ID	Russian Federation	RU
Bhutan	BT	Israel	IL	Saudi Arabia	SA
Bolivia	BO	Italy	IT	Senegal	SN
Brazil	BR	Jamaica	JM	Singapore	SG
Cambodia	KH	Japan	JP	Slovak Republic	SK
Canada	CA	Kenya	KE	Slovenia	SI
Chile	CL	Kuwait	KW	South Africa	ZA
China	CN	Libya	LY	South Korea	KR
Colombia	CO	Luxembourg	LU	Spain	ES
Congo	CG	Malaysia	MY	Sri Lanka	LK
Costa Rica	CR	Maldives	MV	Sweden	SE
Croatia	HR	Mexico	MX	Switzerland	CH
Czech Republic	CZ	Monaco	MC	Taiwan	TW
Denmark	DK	Mongolia	MN	Thailand	TH
Ecuador	EC	Morocco	MA	Turkey	TR
Egypt	EG	Nepal	NP	Uganda	UG
El Salvador	SV	Netherlands	NL	Ukraine	UA
Ethiopia	ET	Netherlands Antilles	AN	United States	US
Fiji	FJ	New Zealand	NZ	Uruguay	UY
Finland	FI	Nigeria	NG	Uzbekistan	UZ
France	FR	Norway	NO	Vietnam	VN
Germany	DE	Oman	OM	Zimbabwe	ZW
Great Britain	GB	Pakistan	PK		
Greece	GR	Panama	PA		
Greenland	GL	Paraguay	PY		

Troubleshooting

The Troubleshooting section below will help you solve common issues with your DVD Recorder+VCR. If you don't find the answers you need here, you can contact our Customer Service Department as follows:

Phone (800) 736-7679

E-mail customersupport@govideo.com

Web www.govideo.com

SYMPTOM	CAUSE	SOLUTION
No power.	Power cord is disconnected.	Plug power cord into rear panel and wall outlet securely.
No picture.	TV not set to receive DVD Recorder+VCR signal output.	Select appropriate video input on TV so picture from DVD Recorder+VCR appears on screen.
	Video cable not connected securely.	Connect video cable securely.
	Progressive Scan is set to "ON' in the menu system, but TV is not compatible with 525p signal.	Set Progressive Scan to "OFF"; see page 24.
No sound.	Equipment connected with audio cable not set to receive DVD Recorder+VCR signal output.	Select correct input mode on audio receiver so you can hear sound from DVD Recorder+VCR.
	Audio cables not connected securely.	Connect audio cables securely.
	Power off on connected audio device.	Turn on connected audio device.
	Audio cables damaged.	Replace audio cables.
	Audio settings incorrectly set.	Check Audio settings; see page 26.
Playback does not start.	No disc or tape inserted.	Insert disc or tape. Check disc or tape indicator on front panel display.
	Unplayable disc inserted.	Insert playable disc. Check disc type, color system, and regional code.
	Disc upside down or not placed within the guide.	Place disc with playback side down inside the guide.
	Parental Control set.	Cancel Parental Control function or change rating level; see page 27.
Poor picture quality.	Disc or tape heads are dirty.	Clean disc or video heads.
	TV channels not tuned properly.	Check "Tuning Band" and re-run "Auto Channel Set"; see page 22.
	Tape is a rental or recorded on other VCR.	Use TRACK+/- to manually adjust tracking during playback.
	Antenna or cables are loose.	Tighten connections or replace cable(s).
Distorted picture from external input.	Video signal from external component is copy-protected.	Connect component directly to your TV.
Some channels skipped when using CH ▲ ▼	Skipped channels were deleted.	See "Adding/Deleting Channels" on page 22.
No camcorder image.	Camcorder off.	Turn camcorder on.
	DVD Recorder+VCR's input not set to AV1, AV2, or DV IN.	Press INPUT to select the correct input.

Troubleshooting *(continued)*

SYMPTOM	CAUSE	SOLUTION
Cannot play recorded disc on other DVD player.	Disc not finalized.	Finalize disc; see page 30.
	Disc recorded in VR mode.	Other player must be VR compatible.
	Some players will not play even finalized discs.	No solution.
	Discs recorded with copy-once material cannot be played on other players.	No solution.
Cannot record or did not record successfully.	Insufficient blank space on disc.	Use another disc.
	Source copy-protected.	You cannot record copy-protected source.
	Recording channel set to TV's tuner.	Select channel on DVD Recorder+ VCR's built-in TV tuner.
	When recording to Video mode disc, "copy-once" programs cannot be recorded.	Use a VR mode formatted disc for copy-once material.
Cannot Timer Record.	Incorrect date and time set.	Set correct date and time; see page 23.
	Incorrect programming. TIMER indicator not lit.	Reprogram Timer; see page 42. Turn off DVD Recorder+VCR.
	DVD Recorder+VCR on.	Turn DVD Recorder+VCR off.
Stereo Recording and/or Playback not present.	TV not Stereo-compatible.	No solution.
	Broadcast program not in stereo.	No solution.
	DVD Recorder+VCR AV Out jacks not connected to TV AV In jacks.	Make AV connections. Stereo available only via AV output.
	DVD Recorder+VCR Audio/Video Out not selected for viewing at TV.	Select AUX or AV source as TV input.
Remote not working.	Remote not pointed at remote sensor.	Point remote at remote sensor.
	Remote too far from DVD Recorder+VCR.	Operate within 10 ft (3 m).
	Obstacle in path of remote and DVD Recorder+VCR.	Remove obstacle.
	Batteries are dead.	Replace batteries.
	Remote locked.	Press and hold POWER button for 5 seconds.
	Remote in incorrect mode.	Press DVD to control DVD deck. Press VCR to control VCR deck.

Resetting the DVD Recorder+VCR

If you observe any of the following symptoms:

- The unit is plugged in, but the power will not turn on or off.
- The front panel display is not working.
- The unit does not operate normally.

You can reset the unit as follows:

- Press and hold the POWER button for more than five seconds. Then press the POWER button again to turn the unit back on.
- Unplug the power cord and then plug it back in again after five seconds.

Product Care & Handling

Handling Discs

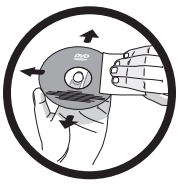
- Do not touch the playback side of the disc.
- Hold the disc by the edges so that fingerprints will not get on the surface
- Do not stick paper or tape on the disc.

Storing Discs

- After playing, store the disc in its case.
- Do not expose the disc to direct sunlight or sources of heat, and never leave it in a parked car exposed to direct sunlight.

Cleaning Discs

- Fingerprints and dust on the disc can cause poor picture quality and sound distortion.
- Before playing, clean the disc with a clean cloth.



- Wipe the disc from the center outward.
- Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

Moisture Condensation

Never operate this product immediately after moving it from a cold location to a warm location. Leave it for two or three hours without operating it. If you use this product in such a situation, it may damage discs/tapes and internal parts.

Recommended Disc Brands

DVD-R

- SONY (8x, 16x)
- TDK (4x, 8x)
- Verbatim (4x, 8x)
- Panasonic (2x, 4x)

DVD+R

- SONY (2.4x, 4x, 8x, 16x)
- TDK (4x)
- Mitsubishi (4x, 8x)
- Ricoh (2x, 4x, 8x)

DVD-RW

- Victor (1x, 4x)
- Maxell (1x, 2x, 4x)
- VerbatimTDK (2x)
- Mitsubishi (2x)

DVD+RW

- SONY (2.4x)
- TDK (2.4x)
- Ricoh (2.4x)
- HP (2.4x, 4x)
- Philips (4x)

Other Disc Notes

- Depending on the conditions of the recording equipment, some CD-R/RW (or DVD±R/RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal).
- Depending on the recording software & the finalization, some recorded discs may not be playable.

Technical Specifications

General

Power requirements	AC 120 V, 60 Hz
Power consumption	35W
Dimensions (approx.)	430 X 78.5 X 354 mm (16.9 x 3.1 x 13.9 inches) (w x h x d)
Mass (approx.)	5.6 kg (12.32 lbs)
Operating temp.	5˚C to 35˚C (41˚F to 95˚F)
Operating humidity	5 % to 90 %
Signal system	NTSC

Recording

Recording format	DVD-VR, DVD-VIDEO
Recordable discs	DVD-RW, DVD-R, DVD+RW, DVD+R
Recordable time	DVD: ~1 hr (XP mode), 2 hrs (SP mode), 4 hrs (LP mode), 6 hrs (EP mode) VCR: ~2 hrs (SP mode, T-120), 6 hrs (SLP, T-120), 8 hrs (T-160)
Video rec format:	
Sampling frequency	27MHz
Compression format	MPEG2
Audio rec format:	
Sampling frequency	48kHz, 96kHz
Compression format	Dolby Digital

VCR Specifications

Head system	Four head helical scan azimuth system
Timer	12-hr display type with AM, PM
Tape speed	SP: 33.35 mm/sec, LP: 16.67 mm/sec, SLP: 11.12 mm/sec
Tape width	12.7 mm
Rewind time	~ 65 seconds (T-120)
Antenna	75 ohms (VHF/UHF)
VHF output signal	Channel 3 or 4 (Switchable)
Channel coverage	VHF: 2-13, UHF: 14-69, CATV: 1-125 (4A, A-W, W+1 - W+84, A-5 - A-1)
Frequency range	20Hz to 20kHz
Signal-to-noise ratio	43dB
Dynamic range	88 dB
Channel separation	60 dB

DVD Specifications

Laser system	Semiconductor laser, wavelength 650 nm
Frequency response	DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz
Signal-to-noise ratio	> 95dB
Harmonic distortion	< 0.008%
Dynamic range	> 90 dB

Inputs

ANTENNA IN	Antenna or CATV input, 75 ohms
VIDEO IN (AV1,2)	1.0 Vp-p 75 ohms, sync negative, RCA jack x 2
AUDIO IN (AV1,2)	-6 dBm more than 47 kohms, RCA jack (L, R) x 2
S-VIDEO IN	(Y) 1.0 V (p-p), 75ohms, negative sync, Mini DIN 4-pin x 1 (C) 0.286 V (p-p) 75ohms
DV IN	4 pin (IEEE 1394 standard)

Outputs

VIDEO OUT	1 Vp-p 75ohms, sync negative, RCA jack x 1
S-VIDEO OUT	(Y) 1.0 V (p-p), 75ohms, negative sync, Mini DIN 4-pin x 1 (C) 0.286 V (p-p) 75ohms
COMP. VIDEO OUT	(Y) 1.0 V (p-p), 75ohms, negative sync, RCA jack x 1 (PROGRESSIVE SCAN) (Pb)/(Pr) 0.7 V (p-p), 75ohms, RCA jack x 2
Audio out (digital)	0.5 V (p-p), 75ohms, RCA jack x 1
Audio out (optical)	Optical connector x 1
Audio out (analog)	1.1 Vrms (1 kHz, -6 dB), 600ohms, RCA jack (L, R) x 2
RF OUT	Channel 3 or 4 (Switchable)

MP3/WMA/JPEG Disc Requirements

Sampling frequency	8~48 kHz (MP3), 32~48 kHz (WMA)
Bit rate	8~320 kbps (MP3), 32~192 kbps (WMA)
Photo size	< 4MB recommended
File extensions	.mp3, .wma, .jpg only
CD-R Format	ISO 9660 and JOLIET
DVD±R/RW Format	ISO 9660 (UDF Bridge format)
Max. Files/Disc	<1999 (total number of files and folders)
Note on Formats	Progressive and lossless compression JPEG files not supported

- *Specifications and product design are subject to change without notice.*

Other Reference Information

Restrictions on Video Recording

- You cannot record copy-protected video using this recorder. Copy-protected video includes DVD-Video discs and some satellite broadcasts. If copy-protected material is encountered during a recording, recording will pause or stop automatically and an error message will be displayed on-screen.
- Video that is 'copy-once only' can only be recorded using a DVD-RW disc in VR mode with CPRM (see below).

What is 'CPRM'?

- CPRM (Content Protection for Recordable Media) is a copy protection system that only allows recording of 'copy once' broadcast programs.
- This DVD Recorder+VCR is CPRM compatible, which means you can record copy-once broadcast programs, but you cannot then make a copy of those recordings. CPRM recordings can only be made on DVD-RW discs formatted in VR mode, and CPRM recordings can only be played on players that are specifically compatible with CPRM.

Copyright Information

- Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the area in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rights owner.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision corporation. Reverse engineering or disassembly is prohibited.

Progressive Scan Notice

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING YOUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD+VCR RECORDER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Warranty

GoVideo Limited Warranty

Who Provides the Limited Warranty

During the warranty period, the GoVideo Warranty Administrator will honor service for 90 days labor, 1 year parts from the original date of consumer purchase. See below for Commercial, Industrial or Educational use coverage. Remote controls are warrantied for 90 days from the date of purchase.

Who is Protected

This warranty protects the original consumer owner of this GoVideo product.

What is Covered and How Long

This warranty covers internal operating parts and service/labor to repair or replace covered parts in this GoVideo product for 90 days labor, 1 year parts, from the date of purchase, defined as follows: (1) Original Consumer Retail Purchase; (2) First Rental Purchase Agreement; or (3) First Lease Purchase Agreement (the "Warranty Period"). Labor and replacement parts supplied during the Warranty Period are covered only for the remaining portion of the original Warranty Period. The GoVideo Warranty Administrator shall have no liability for service under this warranty if non-OEM (Original Equipment Manufacturer) replacement parts are used in the repair of your GoVideo product.

What the Owner Must Do If Service is Required

Please contact our customer service department at 1-800-736-7679 to repair or replace your product, at GoVideo's option, if it proves to be defective in material or workmanship under normal use, during the warranty period listed above, effective from the date of original consumer purchase of the product. Repaired or replacement units are warrantied for the remaining period of the original warranty. Please retain dated sales receipt. Within the warranty period, the customer pays for inbound shipping charges and GoVideo pays return shipping charges.

Other Warranty Coverage

Commercial, Industrial or Educational use has the same warranty coverage as stated in this warranty.

What are the Exceptions

This warranty does not cover: (1) Normal maintenance service, such as cleaning. (2) Damage from misuse, abuse neglect or accident, natural disasters or Acts of God. (3) Cabinetry, decorative parts, A/C adapters, knobs or buttons. (4) The foreign country use of this product. (5) GoVideo product which has been electronically or mechanically modified in any way or incorporated into other products. (6) Installation and setup service adjustments. (7) Owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized GoVideo dealer.

GoVideo is not responsible for any shipping, handling or insurance charges.

This Exclusive Limited Warranty excludes all incidental and consequential damages. Some states do not allow the exclusion of incidental and consequential damages, so the above exclusion may not apply to you.

ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This Exclusive Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

GoVideo Warranty Administrator

7835 East McClain Drive
Scottsdale, Arizona 85260-1732
customersupport@govideo.com
1-800-736-7679

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3834RV0040C

Printed in Korea